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ABSTRACT

This inventory of federally supported population research activities for fiscal year 1970 up dates and expands a previous report, The Federal Program in Population Research, which covered projects supported during July 1, 1968 through April 30, 1969. Its purpose is to provide timely and comprehensive information on current population research activities. The definition of population research used in determining the scope and relevance of projects reported is represented by the classification scheme utilized in the format: biological sciences, animal behavior and ecology, social sciences, and institutional programs. Thirteen federal agencies support the 664 projects included in the inventory with a funding value of $163 million. Each project is classified within the category most closely describing the principal focus of the study, citing title of the research project, author, supporting agency, method of support, grant number, amount of funding for fiscal year, starting and completion dates, and total support for duration of the project. An alphabetical index of investigators, a classification outline including all sub-categories, and two fiscal tables of projects by agency and classification scheme are appended. (BL)

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THE FEDERAL PROGRAM IN POPULATION RESEARCH

Inventory of Population Research Supported by Federal Agencies During Fiscal Year 1970

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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December 31, 1970

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
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SE 011 315

ACKNOWLEDGMENT

Appreciation is expressed to the many individuals whose diligent efforts have contributed to this report. The cooperation of the representatives of all the Federal agencies who were queried resulted in the comprehensive reporting of projects included in the inventory.

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THE FEDERAL PROGRAM IN POPULATION RESEARCH

Inventory of Population Research Supported by Federal Agencies During Fiscal Year 1970

Prepared by
Center for Population Research
National Institute of Child Health and Human Development

December 31, 1970

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service National Institutes of Health

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INTRODUCTION

Summary

During fiscal year 1970 the Federal Government expended $163 million for activities directly or indirectly related to population research. This total represents funding reported by 13 Federal agencies for 664 research projects included in this compilation. Of this amount $129 million was spent for data collection activities.

Background

This inventory of federally supported population research activities for fiscal year 1970 was prepared by the Center for Population Research of the National Institute of Child Health and Human Development, National Institutes of Health, at the request of the Deputy Assistant Secretary for Population Affairs of the Department of Health, Education, and Welfare. The purpose of the report is to provide timely and comprehensive information on current population research activities to meet the need of those concerned with this growing and increasingly significant field. This survey updates and expands upon the previous report, The Federal Program in Population Research, which covered projects supported during July 1, 1968 through April 30, 1969, and was prepared for the Federal Council for Science and Technology by its Ad Hoc Group on Population Research.

Definition and Format

The definition of population research which was used in determining the scope and relevance of projects reported in the inventory, is

represented by the classification system shown in Appendix A. This scheme also served as the basis for the format and organization of the projects listed in the report.

The classification scheme comprises four major groupings: 1) Biological Sciences; 2) Animal Behavior and Ecology; 3) Social Sciences; 4) Institutional Programs. The first three headings indicate the substantive nature of the research; the fourth includes awards to institutions conducting research in various areas.

Coverage

A total of 13 Federal agencies, identified in the Appendix B table, furnished information on the support or conduct of population research. These agencies submitted information on the research projects which, in their judgment, fell within the scope of population research as defined by the classification scheme. They were also encouraged to include projects with only partial efforts in population research. In addition to these projects, institutional program grants which cover a number of substantive research fields in population are listed.

A total of 1240 projects, submitted by the Federal agencies, were reviewed for relevance to population research. This analysis yielded a total of 664 projects which were included in the inventory; the remaining were excluded because they were not considered to be sufficiently relevant. The projects included were funded in the estimated amount of $163 million. Of this amount $129 million was spent for data generation and compilation activities by such agencies

as the Bureau of the Census, Department of Commerce; Bureau of Labor Statistics,Department of Labor; the National Center for Health Statistics, Department of Health, Education, and Welfare; and foreign organizations supported by the Agency for International Development, Department of State.

All projects listed in the inventory were active during fiscal year 1970, notwithstanding the lack of current funding information for some of them. In the case of intramural research, conducted by the staff of the supporting agency, fiscal data were generally not available.

Description of listings

Each project in this inventory is classified within the category or subcategory which most closely describes the principal focus of the study, and is listed once. Within the category and subcategory, the citations are arranged alphabetically by the name of the principal investigator. For some of the projects, complete information was not available. To facilitate the use of the listing, each citation has been assigned an index number which appears in the left hand column.

A complete citation provides the following information:

a) title of the research project (subtitles or descriptors have been added to indicate relevance or to provide an expanded description).

b) name and institutional address of principal investigator(s).

c) supporting agency

d) mechanism of support

e) grant, contract or other identification number assigned by supporting agency.

f) amount funded for fiscal year or term of the project

g) starting and completion date of the project

h) total support for the full duration of the project

An alphabetical index of the investigators included in the survey follows the citation listing. This listing has been keyed to the index numbers previously noted.

Two fiscal tables are shown as Appendices B and C. Appendix B is a summary tabulation which indicates (for each agency) the number of projects included in the inventory, the number for which funds have been reported, and the corresponding total amount of funds. Appendix C provides this information arranged according to the classification scheme.

INVENTORY OF POPULATION RESEARCH
SUPPORTED BY FEDERAL AGENCIES
FISCAL YEAR 1970

BIOLOGICAL SCIENCES

Reproductive Processes and Contraceptive Development

MULTIPLE OR UNSPECIFIED

1 STUDIES ON COMPARATIVE CYTOLOGY (oocyte, fertilized egg, and oviduct)
Anderson, Everett Massachusetts, U of Amherst, Mass
DHEW Grant HD-4924 $47,671; 09/61-12/74 $463,516

2 STUDIES IN MAMMALIAN REPRODUCTION (gametogenesis, fertilization and preimplantation development)
Blandau, Richard J. Washington, U of Seattle, Wash
DHEW Grant HD-3752 $173,329; 01/69-12/73 $792,142

3 STUDIES ON REPRODUCTION OF THE TALAPOIN MONKEY
Clewe, Thomas H. Delta Regional Primate Ctr New Orleans, La
DHEW Grant RR-0398 $36,157; 05/68-04/71 $102,255

4 EXPERIENCES WITH A LARGE BREEDING COLONY OF RHESUS MONKEYS
Di Giacomo, Ronald F. NINDS San Juan, P.R.
DHEW Intramural NDS(I) 70-LPP 1818

5 RESEARCH ON HUMAN REPRODUCTION AND CONTRACEPTION
Dusitsin, Nikorn Chulalongkorn U Bangkok, Thailand
AID Other 493-11-580-209 $63,900; 07/68-06/70 $126,600

6 EXPERIMENTAL STUDIES ON GAMETOGENESIS & REPRODUCTION
Fawcett, Don W. Harvard U Boston, Mass
DHEW Grant HD-2344 $33,175; 06/66-05/71 $187,041

7 MATURATION, METABOLISM AND AGING OF GAMETES
Foote, Robert H. Cornell U Ithaca, N.Y.
DHEW Grant HD-3471 $43,935; 09/62-08/71 $278,549

8 MULTIDISCIPLINARY INVESTIGATION OF CONTRACEPTION

Fromm, Eli Drexel U Philadelphia, Pa
DHEW Contract(NICHD) NIH 69-2189 $38,437; 06/69-06/71 $154,893

9 SUPPORT OF THE OREGON REGIONAL PRIMATE RESEARCH CENTER
Holman, Charles N. Oregon, U of Med Sch Portland, Oregon
DHEW Grant RR-0163 $350,133;

10 CONTROL MECHANISMS IN REPRODUCTION AND DEVELOPMENT (gametogenesis fertilization, preimplantation development)
Jacobson, Antone G. Texas, U of Austin, Tex
DHEW Prog Proj HD-3803 $268,334; 11/68-10/71 $782,604

11 PRIMATE RESOURCE FOR STUDIES IN REPRODUCTIVE PHYSIOLOGY
Knobil, Ernst Pittsburgh, U of Sch of Med Pittsburgh, Pa
DHEW Grant RR-0298 $112,925; 05/66-04/73 $863,326

12 PRIMATE RESOURCE STUDIES IN REPRODUCTIVE BIOLOGY
Mastroianni, Luigi Pennsylvania, U Sch of Med Phila, Pa
DHEW Grant RR-0340 $100,156; 01/67-12/73 $706,769

13 OBESITY, WEIGHT REDUCTION & REPRODUCTIVE PERFORMANCE
Mickelsen, Olaf Michigan State U East Lansing, Mich
DHEW Grant HD-4502 $27,481; 12/69-11/72 $65,723

14 STUDIES ON HUMAN REPRODUCTION AND CONTRACEPTION (sperm transport, preimplantation development)
Moghissi, Kamran S. Wayne State U Detroit, Mich
DHEW Prog Proj HD-3416 $209,233; 03/68-02/71 $604,636

15 ION TRANSPORT DURING DEVELOPMENT OF R. PIPENS EGGS
Morrill, Gene A. Yeshiva U New York, N.Y.
DHEW Grant HD-5093 $48,586; 01/63-12/74 $410,021

16 REPRODUCTION AND DEVELOPMENTAL BIOLOGY (gametogenesis, gamete transport, fertilization and preimplantation development)
Noyes, Robert W. Hawaii, U of Honolulu, Hawaii
DHEW Prog Proj HD-2066 $72,914; 03/66-06/72 $307,875

17 STUDIES ON EARLY REPRODUCTIVE PROCESSES IN MAMMALS
Odor, D. Louise Virginia Commonwealth U Richmond, Va
DHEW Grant HD-4827 $13,095; 08/69-01/71 $13,095

18 STUDY OF BIOLOGICAL PROFILES OF SELECTED PRIMATES
Olson, Stanley W. Southwest Fdn Res and Educ San Antonio, Texas
DHEW Grant RR-0451 $258,000; 09/68-08/71 $821,074

19 BASIC SCIENCE STUDIES ON INFERTILITY IN RATS (a variety of studies on predominatly male subjects)
Stanley, Allan J. Oklahoma, U of Oklahoma City, Okla
DHEW Grant HD-3909 $44,390; 01/69-02/72 $141,841

20 EFFECT OF MATERNAL AGE ON REPRODUCTIVE CAPACITY
Talbert, George B. New York, State U of New York, N.Y..
DHEW Grant HD-2014 $12,936; 02/66-01/72 $66,780

21 PHYSIOLOGICAL AND PHARMACOLOGICAL STUDIES OF REPRODUCTIVE PROCESSES IN PRIMATES
Tullner, William W. NICHD Bethesda, Md
DHEW Intramural HD-RP-1 $85,000;

22 RESEARCH IN REPRODUCTIVE BIOLOGY
Visutakul, Pachara Siriraj Hosp & Med Sch, Mahidol U Thailand
AID Other 493-11-580-209 $4,500; 07/68-06/70 $24,500

23 SUPPORT FOR THE DELTA REGIONAL PRIMATE RESEARCH CENTER
Walsh, John Tulane U New Orleans, La
DHEW Grant RR-0164 $268,000;

24 REPRODUCTIVE BIOLOGY OF FILIPINO WOMEN
/ Philippines, U of Quezon City, Philippine Islands
AID Other ; 11/69- /72-

EMBRYONIC DEVELOPMENT OF THE REPRODUCTIVE SYSTEM

25 CYTODIFFERENTIATION OF STEROID-SECRETING CELLS (including in-vitro production of androgenic hormones, by fetal guinea pig testis)
Black, Virginia H. New York U New York, N.Y.
DHEW Grant HD-4005 $17,758; 06/69-05/72 $49,751

26 ORIGIN AND POTENTIALITY OF EMBRYONIC SEX CELLS
Blackler, Antonie W. Cornell U Ithaca, N.Y.
DHEW Grant HD-1663 $24,649; 08/65-07/70 $112,946

27 STEROID METABOLISM BY THE REPRODUCTIVE TRACT DURING DEVELOPMENT
Bloch, Eric Yeshiva U New York, N.Y.
NSF Grant GB-14034 $17,500(est) 10/69-09/71 $35,000

28 INFLUENCE OF HORMONES ON GENTIAL TRACT DEVELOPMENT
Bloch, Eric Yeshiva U New York, N.Y.
DHEW Grant HD-0420 $49,843; 01/59-12/70 $342,652

29 FETAL SEXUAL DIFFERENTIATION
Goldman, Allen Seymour Childrens Hosp of Philadelphia Phila, Pa
DHEW Grant HD-4683 $37,500; 05/70-04/75 $162,500

30 ONTOGENESIS OF HORMONE SYNTHESIS IN THE CHICK EMBRYO
Woods, James Edward De Paul University Chicago, Ill
DHEW Grant HD-2939 $17,131; 05/68-04/71 $49,395

DEVELOPMENT AND FUNCTION OF THE REPRODUCTIVE SYSTEM FROM BIRTH THROUGH PUBERTY

31 STUDIES ON THE NEURAL CONTROL OF PUBERTY
Bar-Sela, Mildred Elwers Baylor Univ Coll of Med Houston, Tex
DHEW Grant NS-04645 $29,963; 06/63-11/69 $162,304

32 PUBERTY - SEX ACCESSORY SENSITIVITY TO TESTOSTERONE
Hilton, Frederick K. Louisville, U of Louisville, Ky
DHEW Grant HD-3813 $16,058; 11/68-10/72 $51,833

33 CONTROL OF GONADAL FUNCTION IN PREPUBERAL RATS
Ramaley, Judith A. Indiana U Bloomington, Ind
NSF Grant GB-17438 $16,000; 02/70-02/71 $16,000

FEMALE FERTILITY; ESTROUS AND MENSTRUAL CYCLES

Multiple or unspecified

34 ANALYSIS OF CELL TYPES IN FEMALE REPRODUCTIVE TRACT (oviduct and ovary)
Goeringer, Gerald C. Georgetown U Washington, D.C.
DHEW Contract(NICHD) NIH 69-2206 $36,135; 06/69-06/71 $67,484

35 UTERINE BLOOD FLOW AND CHANGES IN PREGNANCY
Greiss, Frank C. Jr. Bowman Gray Sch of Med Winston-Salem, N.C.
DHEW Grant HE-3941 $43,030; 12/58-01/73 $558,291

36 STATISTICAL STUDY OF REPRODUCTION AMONG ESKIMO WOMEN
Maynard, James E. Arctic Hlth Res Ctr Anchorage, Alaska
DHEW R. Agrent(NICHD)-0006 $40,625; 09/66-06/70 $130,375

37 EXPERIENCES WITH A LARGE BREEDING COLONY OF RHESUS MONKEYS
Myers, Ronald E. Lab of Perinatal Physiology San Juan, P.R.
DHEW Intramural(NINDS) NDS(I) 70-LPP 1818

38 THE REPRODUCTIVE TRACT AND IRON DEFICIENCY
Pritchard, Jack A. Texas, U of Dallas, Tex
DHEW Grant HD-3604 $35,158; 06/68-05/71 $109,402

39 ULTRASTRUCTURAL STUDIES OF ESTROGEN EFFECTS
Seal, Ulysses S. Minnesota, U of Minneapolis, Minn
DHEW Contract(NICHD) NIH 69-2136 $20,865; 06/70-06/71 $20,865

40 PRIMATES IN CARDIOVASCULAR DISEASE (mapping out reproductive cycle in cebus monkey)
Stare, Fredrick J. Harvard U Sch of Public Hlth Boston, Mass
DHEW Grant HEP-10098 $15,000(est); 06/65-05/72

41 RHYTHMOMETRY OF GENITAL BLEEDING AS A FUNCTION OF HUMAN REPRODUCTION
Treloar, Alan E. NICHD Bethesda, Md
DHEW Intramural HD-RP4(7)(c) $52,000;

42 MENSTRUATION AND OVULATION IN THE MONKEY
Vollman, Rudolf F. NINDS Bethesda, Md
DHEW Intramural NDS(CF)68PR/OB-1625

Ovarian factors

43 OVARIAN FEEDBACK HORMONES (estrogens, progestogens and possibly androgens) IN THE AVIAN OVULATION CYCLE
Arcos, M. Agricultural Res Ctr, USDA Beltville, Md
USDA Intramural 0400290032 $68,000; 04/68-04/73 $193,000

44 LIFE CYCLES OF CORPUS LUTEUM AND HUMORAL MODIFICATION
Baggett, Billy South Carolina, Medical U of Charleston, S.C.
DHEW Contract(NICHD) NIH 70-2255 $21,493; 06/70-06/71 $21,493

45 LUTEOLYSIS: PHYSIOLOGICAL, BIOCHEMICAL AND HISTOLOGICAL
(corpus luteum)
Bartosik, Delphine B. Worcester Fdn Exptl Biol Shrewsbury, Mass
NSF Grant GB-18068 $25,000(est); 04/70-04/72 $50,000

46 STUDY OF CHARACTERISTICS OF HUMAN MENSTRUAL CYCLE
Bearman, Jacob E. Minnesota, U of Minneapolis, Minn
DHEW Contract(NICHD) NIH PH-43-65-1014 $40,298; 06/65-06/71 $141,698

47 FUNCTIONING OF CORPORA LUTEA
Brinkley, Howard J. Maryland, U of College Park, Md
DHEW Grant HD-0739 $22,409; 05/64-08/71 $110,956

48 STUDIES OF THE MECHANISM OF LUTEINIZATION IN VITRO
Channing, Cornelia Post Pittsburgh, U of Pittsburgh, Pa
DHEW Contract(NICHD) NIH 70-2256 $25,216;

49 THE MECHANISM OF LUTEINIZATION IN PRIMATES
Channing, Cornelia Post Pittsburgh, U of Pittsburgh, Pa
DHEW Grant HD-3315 $14,462; 03/68-02/71 $54,428

50 RESEARCH IN THE PHYSIOLOGY OF OVULATION
Espey, Lawrence Lee Trinity U San Antonio, Tex
DHEW Contract(NICHD) NIH 69-2126 $51,493; 06/69-06/71 $101,498

51 STUDY OF MAMMALIAN OOCYTE MATURATION
Foote, Wilford Darrell Nevada, U of Reno, Nev
DHEW Contract(NICHD) NIH 69-2127 $24,323; 06/69-06/71 $44,940

52 FOLLICULAR & LUTEAL REGULATION IN THE MAMMALIAN OVARY
Greenwald, Gilbert S. Kansas, U of Kansas City, Kansas
DHEW Grant HD-0596 $36,187; 09/62-12/70 $231,809

53 STUDIES OF THE ISOLATED, INTACT OVARIAN FOLLICLE
Grob, Howard S. New York U New York, N.Y.
DHEW Grant HD-1541 $19,800; 06/65-05/71 $104,229

54 GROWTH AND DEVELOPMENT IN HUMAN AND PRIMATE OVARIES
Hertig, Arthur T. Harvard U Boston, Mass
DHEW Grant HD-3630 $35,066; 10/68-09/73 $168,424

55 E/M OBSERVATIONS OF OVARIAN STEROID CELLS
Koering, Marilyn George Washington U Washington, D.C.
DHEW Grant HD-3087 $20,633; 06/68-05/71 $54,583

56 MECHANISMS OF FOLLICULAR RUPTURE STUDIES
Mandl, Ines Columbia U New York, N.Y.
DHEW Contract(NICHD) NIH 70-2252 $28,300;

57 STUDY OF THE MECHANISM OF OVULATION
Marsh, John M. Miami, U of Miami, Fla
DHEW Contract(NICHD) NIH 69-2128 $23,600; 06/69-06/71 $45,951

58 PROTEINS INDUCED BY GONADOTROPIC HORMONES IN OOCYTES
Merriam, Robert William New York, State U of Stony Brook, N.Y.
DHEW Grant HD-3887 $21,885; 11/68-10/70 $49,100

59 HISTOCHEMICAL STUDIES ON VERTEBRATE OVARIES
Nadkarni, Vinayak B. Karnatak U Dharwar, Mysore State, India

DHEW PL-480(Fogarty) 01-045-1

60 ANTI-LUTEINIZING ACTIVITY IN FOLLICULAR OVUM
Nalbandov, Andrew V. Illinois, U of Urbana, Ill
DHEW Contract(NICHD) NIH 69-2135 $45,635;

61 PERFECTION OF THE CYCLIC AMP ASSAY (role of AMP in uterine metabolism)
Rinard, Gilbert A. Emory U Atlanta, Ga
DHEW Contract(NICHD) NIH 69-2130 $27,700;

62 HORMONAL AND BEHAVIOR DETERMINANTS OF OVULATION
Rodgers, Charles H. Iowa State U of Science & Tech Ames, Iowa
DHEW Grant HD-3985 $14,453; 01/69-12/71 $30,326

63 REGULATION OF OVARIAN FUNCTION - LUTEOTROPIC PROCESS
Romanoff, Elijah B. Worcester Fdn for Exptl Biol Shrewsbury, Mass
DHEW Grant HD-2637 $59,705; 03/68-02/71 $150,866

64 PHYSIOLOGY OF OVULATION
Rondell, Paul A. Michigan, U of Ann Arbor, Mich
DHEW Grant HD-3470 $41,139; 09/61-08/70 $179,623

65 CHANGES IN CORPUS LUTEUM REQUIRED FOR PREGNANCY
Rothchild, Irving Case Western Reserve U Cleveland, Ohio
DHEW Contract(NICHD) NIH 70-2310 $53,313;

66 STUDIES ON THE REGULATION OF OOGENESIS
Schuetz, Allen W. Johns Hopkins U Baltimore, Md
DHEW Grant HD-3797 $16,173; 11/68-10/71 $52,415

67 ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION
Schwartz, Neena Betty Illinois, U of Chicago, Ill
DHEW Grant HD-0440 $60,376; 05/62-04/73 $404,599

68 DISTRIBUTION OF FERTILE AND STERILE COITUS BY DAYS OF THE MENSTRUAL CYCLE
Vollman, Rudolf F. NINDS Bethesda, Md
DHEW Intramural NDS(CF) 68PR/OB 1626

69 ENDOCRINE REGULATION OF THE ESTROUS ACTIVITY CYCLE IN THE RAT (use of sodium pentobarbital)
Whitman, J.R. U.S. Vet Adm Hosp American Lake, Wash
VA Intramural ZO-27594

Oviductal, uterine and vaginal factors

70 CELLULAR KINETICS OF FEMALE GENITAL TISSUES (vagina, uterine cervix and vulva)
Averette, Hervy E. Miami, U of Coral Gables, Florida
DHEW Grant CA-10192 $27,815; 09/67-08/70 $82,061

71 SPECIFICITY OF UTERINE RESPONSE TO OVARIAN HORMONES
Barker, Kenneth L. Nebraska, U of Omaha, Nebr
DHEW Grant HD-2851 $26,445; 09/67-08/70 $81,174

72 METABOLISM OF UTERINE TISSUES FROM THE RHESUS MONKEY
Beatty, Clarissa H. Med Res Fdn of Oregon Portland, Oreg
DHEW Grant HD-2837 $24,979; 08/67-01/71 $68,508

73 GLYCOPROTEINS OF MURINE ENDOMETRIAL SECRETIONS
Bernfeld, Peter Bio-Research Inst Inc Cambridge, Mass
DHEW Grant HD-2629 $33,783; 01/67-12/70 $117,627

74 NEURAL CONTROL OF MAMMALIAN OVIDUCT (sperm and egg transport)
Black, Donald L. Massachusetts, U of Amherst, Mass
DHEW Contract(NICHD) NIH 69-2132 $14,840; 06/69-06/71 $29,795

75 BIOLOGY OF THE OVIDUCT AND GAMETE TRANSPORT
Blandau, Richard J. Washington, U of Seattle, Wash
DHEW Contract(NICHD) NIH 70-2141 $195,890;

76 CONTROL OF CILIOGENESIS IN THE RHESUS MONKEY OVIDUCT
Brenner, Robert M. Med Res Fdn of Oregon Portland, Oreg
DHEW Contract(NICHD) NIH 70-2146 $14,831; 05/70-05/71

77 HORMONAL CONTROL OF OVIDUCT GROWTH IN RHESUS MONKEY
Brenner, Robert M. Med Res Fdn of Oregon Portland, Oreg
DHEW Grant HD-2753 $31,727; 01/67-12/72 $151,084

78 FACTORS INFLUENCING MAMMALIAN OVIDUCTAL SECRETIONS
Brunton, William Johns Hopkins U Baltimore, Md
DHEW Contract(NICHD) NIH 70-2046 $40,000;

79 CONTROL OF OVIDUCT FUNCTIONS
Dickey, Joseph F. Clemson U Clemson, S.C.
DHEW Contract(NICHD) NIH 70-2164 $65,408;

80 MEASUREMENT OF BLOOD FLOW IN THE MAMMALIAN OVIDUCT
Dickson, William M. Washington State U Pullman, Wash
DHEW Contract(NICHD) NIH 70-2144 $13,996;

81 IMMUNOLOGY & ENZYMOLOGY OF PROTEINS & CONTRACEPTION (protein composition of oviductal tissue and luminal fluid)
Feigelson, Muriel H. Columbia U New York, N.Y.
DHEW Contract(NICHD) NIH 69-2131 $24,688; 06/69-12/70 $55,396

82 PHYSIOLOGY OF THE OVIDUCT
Feigen, George A. Stanford U Stanford, Calif
DHEW Contract(NICHD) NIH 70-2157 $40,793;

83 REGULATION OF UTERINE RNA AND PROTEIN METABOLISM
Greenman, David L. Johns Hopkins U Baltimore, Md
DHEW Grant AM-9324 $24,330; 01/65-12/70 $151,667

84 ESTROGEN ACTION IN RAT UTERUS
Halkerston, Ian D. Worcester Fdn for Exptl Biol Shrewsbury, Mass
DHEW Grant HD-3203 $55,664; 05/68-04/71 $149,207

85 STUDY OF THE EFFECTS OF STEROIDS ON RNA (in the mammalian oviduct)
Hamilton, Terrell H. Texas, U of Austin, Texas
DHEW Contract(NICHD) NIH 70-2159 $43,400;

86 NEUROHUMORAL CONTROL OF OVIDUCT FUNCTION (fertilization, ovum

transport and preimplantation development)
Harper, Michael J. K. Worcester Fdn for Exptl Biol Shrewsbury, Mass
DHEW Grant HD-2597 $32,983; 01/67-12/73 $203,685

87 PHYSIOLOGY OF THE MAMMALIAN OVIDUCT
Howe, George R. Massachusetts, U of Amherst, Mass
DHEW Grant HD-4189 $12,934; 10/68-09/72 $43,915

88 ESTROGEN-RECEPTOR SUBSTANCES OF OVIDUCT TISSUE
Jensen, Elwood V. Chicago, U of Chicago, Ill
DHEW Contract(NICHD) NIH 69-2108 $12,886; 06/69-06/71 $58,051

89 HORMONAL CONTROL OF METABOLISM IN VAGINAL TISSUE
Katzman, Philip A. St. Louis U Sch of Med St. Louis, Mo
NSF Grant GB-8778 $20,250(est); 08/69-08/71 $40,500

90 TRYPTAMINE RECEPTORS IN THE ISOLATED RAT UTERUS (with special emphasis on CNS effects)
Khan, Zahir Udain Nat Hlth Laboratories Islamabad, Pakistan
DHEW PL-480(Fogarty) ; 01/70-01/73 $24,097

91 UTERINE EOSINOPHIL STRUCTURE AND FUNCTION
Klebanoff, Seymour J. Washington, U of Seattle, Wash
DHEW Grant HD-2266 $15,976; 05/66-04/74 $112,512

92 NEW METHODS OF FERTILITY REGULATION (studies of histamine and diamine oxidase as a potential contraceptive measure)
Kobayashi, Yutaka Worcester Fdn Exptl Biology Shrewsbury, Mass
DHEW Contract(NICHD) NIH 69-2093 $33,740;

93 FINE STRUCTURE OF HUMAN ENDOMETRIUM - CORRELATION OF NORMAL CYCLICAL CHANGES AND CHANGES INDUCED BY CHLORMADINONE ACETATE
Kosek, J. U.S. Vet Adm Hosp Palo Alto, Calif
VA Intramural ZO-27915

94 BIOELECTRIC ACTIVITY OF THE OVIDUCT IN VIVO
Larks, Saul D. Missouri, U of Columbia, Mo
DHEW Contract(NICHD) NIH 70-2148 $31,372; 05/70-05/71

95 MORPHOCHEMICAL ANALYSIS OF MUCINS IN MAMMALIAN OVIDUCT
Leppi, T. John New Mexico, U of Albuquerque, New Mex
DHEW Contract(NICHD) NIH 70-2311 $17,763;

96 A COMPREHENSIVE STUDY OF OVIDUCT PHYSIOLOGY (capacitation and fertilization)
Mastroianni, Luigi Pennsylvania, U of Philadelphia, Pa
DHEW Grant HD-1810 $55,069; 07/65-08/71 $266,490

97 PHYSIOLOGY OF THE OVIDUCT
Nelsen, Thomas S. Stanford U Stanford, Calif
DHEW Contract(NICHD) NIH 70-2257 $91,585;

98 ULTRASTRUCTURAL STUDIES ON THE OVIDUCT
Odor, D. Louise Virginia Commonwealth U Richmond, Va
DHEW Contract(NICHD) NIH 70-2142 $13,195; 05/70-05/71 $13,195

99 BIOCHEMICAL AND PHARAMACOLOGIC STUDIES OF THE OVIDUCT
Russell, Paul T. Cincinnati, U of Cincinnati, Ohio

DHEW Contract(NICHD) NIH 69-2096 $36,540; 06/69-06/71 $70,040

100 OVIDUCT CILIA: STRUCTURE, FUNCTION, AND DEVELOPMENT
Satir, Peter California, U of Berkeley, Calif
DHEW Contract(NICHD) NIH 70-2261 $34,343;

101 STUDY OF UTERINE LUTEOLYTIC SUBSTANCES
Schomberg, David William Duke U Durham, N.C.
DHEW Contract(NICHD) NIH 70-2160 $17,070; 05/70-05/71

102 METABOLISM AND CATION TRANSPORT IN MYOMETRIUM
Siegman, Marion J. Thomas Jefferson U Philadelphia, Pa
DHEW Grant HD-3622 $15,259; 06/68-05/71 $53,446

103 MECHANISM OF GROWTH IN ENDOMETRIAL TISSUE
Sweat, Max L. Utah, U of Salt Lake City, Utah
DHEW Grant HD-0472 $53,954; 09/56-05/73 $511,754

104 ESTROGEN RELATIONSHIPS AND THE EFFECTS OF IUCD'S
Van Orden, L. S. Iowa, U of Iowa City, Iowa
DHEW Contract(NICHD) NIH 70-2318 $25,356;

105 DEVELOPMENT & EVALUATION OF OVULATION DETECTION METHODS (monitoring activity of the oviduct)
Ware, Ray W. Southwest Res Inst San Antonio, Tex Tex
DHEW Contract(NICHD) NIH 69-2188 $50,637; 06/69-06/71 $103,015

MALE FERTILITY

106 ROLE OF THE EPIDIDYMIS IN SPERM MATURATION
Amann, Rupert P. Pennsylvania State U University Park, Pa
DHEW Contract(NICHD) NIH 69-2137 $58,660; 06/69-06/71 $89,366

107 PHYSIOLOGY OF THE RABBIT TESTIS AND EPIDIDYMIS
Amann, Rupert P. Pennsylvania State U University Park, Pa
DHEW Grant HD-1356 $47,154; 03/65-02/73 $205,736

108 FACTORS MAINTAINING BIOCHEMICAL POLYMORPHISMS
Ashton, Geoffrey C. Hawaii, U of Honolulu, Hawaii
DHEW Grant HD-1831 $64,652; 05/65-05/74 $326,220

109 COMPARATIVE STUDY OF SPERMATOGENESIS AMONG VARIOUS PRIMATE SPECIES
Barr, Arnold B. U.S. Public Hlth Serv Hosp Staten Island, N.Y.
DHEW Intramural(PHPS) P-71-60-69 $2,000; 07/68-06/71 $4,500

110 COMPARISON OF PRESSURES AND MYOGRAPHY IN INTROMISSION
Beckett, Sidney D. Auburn U Auburn, Ala
DHEW Grant HD-4104 $30,844; 06/70-05/72 $67,844

111 ULTRASTRUCTURAL, E/M STUDIES OF MAMMALIAN SPERMIOGENESIS
Brinkley, B. R. Texas, U of Houston, Texas
DHEW Contract(NICHD) NIH 69-2139 $58,703; 06/69-06/71 $94,578

112 GENITAL VASCULAR INSUFFICIENCY AND IMPOTENCE
Canning, J. R. U.S. Vet Adm Hosp Hines, Illinois
VA Intramural ZO-19844

113 FINE STRUCTURE OF THE VERTEBRATE TESTIS
Christensen, A. Kent Stanford U Stanford, Calif
DHEW Grant HD-1512 $36,229; 05/65-04/71 $169,864

114 COMPOSITION OF HUMAN AND SWINE EPIDIDYMAL PLASMA & SPERM
Crabo, Bo Royal Veterinary Coll Stockholm, Sweden
DHEW Contract(NICHD) NIH 70-2056 $10,316; 02/70-01/71

115 PITUITARY GONADOTROPHINS AND TESTICULAR NUCLEIC ACIDS
Davidson, Oscar W. Miami, U of Miami, Fla
DHEW Grant HD-4080 $27,100;

116 TESTICULAR FUNCTION AND EXTEROCEPTIVE STIMULI
Desjardins, Claude Okla St U of Agr & Appl Sci Stillwater, Okla
DHEW Grant HD-4578 $53,839; 05/70-04/73 $124,657

117 STEROID METABOLISM IN MALE SEX ORGANS IN VIVO
Eik-Nes, Kristen B. Southern California, U of Los Angeles, Calif
DHEW Grant HD-4195 $70,742; 11/68-10/74 $376,220

118 EFFECT OF AGING AND STRESS ON TESTICULAR METABOLISM
Ewing, Larry L. Oklahoma State U Stillwater, Oklahoma
DHEW Grant HD-0636 $24,100; 09/63-08/71 $161,895

119 ENDOCRINE PHYSIOLOGY OF THE NORMAL AND DIEASED PROSTRATE
Farnsworth, W. E. U.S. Vet Adm Hosp Buffalo, N.Y.
VA Intramural ZO-2977

120 INVESTIGATION OF SPERMATOGENESIS, RELEASE MATURATION
Fawcett, Don W. Harvard U Boston, Mass
DHEW Contract(NICHD) NIH 69-2107 $59,944; 06/69-06/71 $126,600

121 STRUCTURE AND FUNCTION OF EPIDIDYMIS AND VAS DEFERENS
Fawcett, Don W. Harvard U Boston, Mass
DHEW Grant HD-4290 $15,848; 11/69-10/72 $56,083

122 ACCESSORY GLANDS OF THE MALE REPRODUCTIVE TRACT
Flickinger, Charles J. Colorado, U of Boulder, Colo
DHEW Contract(NICHD) NIH 69-2104 $12,750; 06/69-06/71 $27,735

123 ROLE OF STEROIDS IN MAMMALIAN EPIDIDYMIS
Frankel, Arthur I. New York, State U of Binghamton, N.Y.
DHEW Grant HD-4081 $17,738; 04/69-03/71 $39,252

124 STUDY OF GOLDEN HAMSTER SPERMATOZOA
Franklin, Luther E. Tulane U Covington, La
DHEW Contract(NICHD) NIH 69-2101 $15,705; 06/69-06/71 $24,822

125 DEVELOPMENT OF MALE REPRODUCTIVE FUNCTION
French, Frank Sikes North Carolina, U of Chapel Hill, N.C.
DHEW Grant HD-4466 $34,749; 06/70-05/74 $112,316

126 CHARACTERISTICS, METABOLISM, FERTILITY OF HUMAN SEMEN
Freund, Matthew Jay New York Medical Coll New York, N.Y.
DHEW Grant HD-0488 $20,623; 01/59-12/71 $167,278

127 DIFFERENTIATION DURING MALE GAMETOGENESIS & FERTILITY
Gledhill, Barton L. Pennsylvania, U of Philadelphia, Pa

DHEW Grant HD-3577 $34,443; 11/68-10/71 $102,379

128 BIOCHEMICAL STUDIES ON SPERMATOGENESIS & SPERMATOZOA
Goldberg, Erwin Northwestern U Evanston, Ill
DHEW Contract(NICHD) NIH 69-2162 $45,061; 06/69-06/71 $85,005

129 RESEARCH AND DEVELOPMENT OF NEW CONTRACEPTIVES (macromolecular biosynthesis in epididymal, ejaculated and capacitated spermatozoa)
Hele, Priscilla Worcester Fdn for Exptl Biology
Shrewsbury, Mass
DHEW Contract(NICHD) NIH 70-2315 $52,785; 06/70-06/71 $52,785

130 PRIMATE SEMEN AND MALE ACCESSORY GLAND SECRETIONS
Hoskins, Dale D. Med Res Fdn of Oregon Portland, Oreg
DHEW Grant HD-3770 $26,309; 11/68-10/71 $73,521

131 SEPARATION OF SPERMATOZOA OF DIFFERENT SIZES IN LABORATORY ANIMALS AND CATTLE
Kiddy, Charles A. Agricultural Res Ctr Beltsville, Md
USDA Intramural 03-31-064-310-21 $13,000; 04/68-04/73 $38,000

132 THE IMPORTANCE OF IMMUNOGENETIC FACTORS IN PROBLEMS OF LOWERED FERTILITY IN CATTLE
Kiddy, Charles A. Agricultural Res Ctr Beltsville, Md
USDA Intramural 03-31-004-310-21 $51,000; /64- /70 $101,000

133 THE METABOLISM OF HUMAN SPERMATOZOA
Mac Leod, John Cornell U New York, N.Y.
DHEW Grant HD-0481 $13,247; 01/58-12/71 $190,866

134 BIOLOGY OF THE TESTIS: ACTION OF FSH
Means, Anthony R. Vanderbilt U Nashville, Tenn
DHEW Grant HD-4416 $48,612; 06/70-05/73 $101,531

135 SPERM ENZYMES IN FERTILIZATION AND SPERM PHYSIOLOGY
Meizel, Stanley California, U of Davis, Calif
DHEW Grant HD-3549 $18,487; 06/68-05/71 $70,103

136 MACROMOLECULE SYNTHESIS AND SPERM FUNCTION
Morton, Bruce Hawaii, U of Honolulu, Hawaii
DHEW Grant HD-4738 $21,744; 01/70-12/71 $38,819

137 NEUROCHEMICAL CONTROL OF SPERM MOTILITY
Nelson, Leonard Med Coll of Ohio at Toledo Toledo, Ohio
DHEW Contract(NICHD) NIH 70-2313 $45,558; 06/70-06/71 $45,558

138 SUBMICROSCOPIC BASES OF MALE INFERTILITY
Nelson, Leonard Med Coll of Ohio at Toledo Toledo, Ohio
DHEW Grant HD-3266 $23,186; 03/68-02/73 $175,011

139 TESTIS RUPTURE
Olsson, C. A. U.S. Vet Adm Hosp Boston, Mass
VA Intramural ZO-29350 07/69-06/70

140 AN INVESTIGATION OF DIPHOSPHOPYRIDINE NUCLEOTIDE AND TRIPHOSPHOPYRIDINE NUCLEOTIDE DEPENDENT ENZYMES IN DISEASE (in spermatozoa and testis)
Opher, Albert W. U.S. Vet Adm Hosp Fort Howard, Md

VA Intramural ZO-26419

141 PROPERTIES OF LACTATE DEHYDROGENASE ISOENZYME
Opher, Albert W. U.S. Vet Adm Hosp Fort Howard, Md
VA Intramural ZO-27665

142 STUDY OF HORMONAL CONTROL OF SPERM MATURATION
Orgebin-Crist, Marie-Claire Vanderbilt U Nashville, Tenn
DHEW Contract(NICHD) NIH 69-2166 $37,083; 06/69-06/71 $64,926

143 MALE REPRODUCTIVE PHYSIOLOGY
Orgebin-Crist, Marie-Claire Vanderbilt U Nashville, Tenn
DHEW Grant HD-3820 $21,973; 12/68-11/71 $61,489

144 MAMMALIAN SPERM MOTILITY AND ULTRASTRUCTURE
Phillips, David M. Washington U St Louis, Mo
DHEW Contract(NICHD) NIH 69-2106 $40,543; 06/69-06/71 $83,242

145 HUMAN SEMEN ANTIBODIES CAUSING INFERTILITY
Quinlivan, W. Leslie G. California, U of Los Angeles, Calif
DHEW Grant HD-2322 $18,741; 01/66-03/72 $109,767

146 CONTROL MECHANISMS OF SPERM MOTILITY
Rikmenspoel, Robert New York, State U of Albany, N.Y.
DHEW Contract(NICHD) NIH 70-2156 $30,836; 06/70-06/71 $30,836

147 EPIDIDYMAL CHOLINESTERASES OF THE RAT
Skrepetos, Chris N. Southern Oregon Coll Ashland, Oreg
DHEW Grant HD-3403 $15,359; 06/68-05/71 $43,162

148 EFFECT OF GONADOTROPINS ON TESTIS TISSUE CULTURE
Steinberger, Anna Albert Einstein Med Ctr Philadelphia, Pa
DHEW Grant HD-0399 $54,293; 09/61-08/72 $449,024

149 GONADO-PITUITARY AXIS IN THE RAT
Steinberger, Emil Albert Einstein Med Ctr Philadelphia, Pa
DHEW Grant HD-4178 $52,709; 09/61-08/72 $411,158

150 GERM CELL CHROMOSOMAL STRUCTURE IN SUBJECTS WITH VARICOCELE AND INFERTILITY
Swerzie, S. P. U.S. Public Hlth Serv Hosp Boston, Mass
DHEW Intramural(FPHS) B-70-9-69 $1,300; 08/68-08/70 $5,075

151 METABOLISM IN SPERMATOGENESIS & SPERM MATURATION
Terner, Charles Boston U Boston, Mass
DHEW Contract(NICHD) NIH 69-2102 $14,177; 06/69-06/71 $25,884

152 ASPECTS OF MALE REPRODUCTION
Van Demark, Noland L. Ohio State U Columbus, Ohio
DHEW Prog Proj HD-3822 $131,662; 01/70-12/72 $335,748

153 FACTORS CONTROLLING TESTICULAR TISSUE METABOLISM
Van Demark, Noland L. Ohio State U Columbus, Ohio
DHEW Grant HD-3535 $41,594; 02/64-12/69 $224,958

154 BIOCHEMISTRY OF THE MALE GENITAL TRACT
Williams-Ashman, Howard Guy Chicago, U of Chicago, Ill
DHEW Grant HD-4592 $104,255; 06/69-05/75 $478,620

155 STUDY OF GONADOTROPIN ACTION IN THE TESTES
Williams, William L. Georgia, U of Athens, Ga
DHEW Contract(NICHD) NIH 70-2262 $33,500; 06/70-06/71 $33,500

156 ELECTRON MICROSCOPIC STUDIES ON MAMMALIAN SPERM
Zamboni, Luciano Los Angeles County Dept of Hosp Torrance, Calif
DHEW Grant HD-3341 $33,641; 05/68-04/71 $96,438

157 HETEROGENEITY OF DEHYDROGENASES IN HUMAN DEVELOPMENT (sperm)
Zinkham, William H. Johns Hopkins U Baltimore, Md
DHEW Grant HD-0994 $35,439; 09/64-08/70 $204,515

FERTILIZATION

158 SPERM MATURATION STUDIES
Bedford, J. Michael Columbia U New York, N.Y.
DHEW Contract(NICHD) NIH 70-2143 $72,770; 05/70-05/71 $72,770

159 PHYSIOLOGY AND ULTRASTRUCTURE OF SPERM CAPACITATION
Bedford, J. Michael Columbia U New York, N.Y.
DHEW Grant HD-3623 $20,401; 06/68-05/71 $64,507

160 STUDY OF FERTILIZATION OF PRIMATE OVA
Brackett, Benjamin G. Pennsylvania, U of Philadelphia, Pa
DHEW Contract(NICHD) NIH 70-2163 $48,740; 05/70-05/71 $48,740

161 PHYSIOLOGY OF THE FEMALE TRACT (including mechanism of sperm and egg transport in the female tract)
Chang, Min Chueh Worcester Fdn for Exptl Biol Shrewsbury, Mass
DHEW Grant HD-3003 $52,958; 01/60-12/72 $362,916

162 PHYSIOLOGY OF MAMMALIAN FERTILIZATION
Chang, Min Chueh Worcester Fdn for Exptl Biol Shrewsbury, Mass
DHEW Grant HD-3472 $37,980; 01/63-12/74 $311,007

163 IONIZING RADIATION ON MAMMALIAN SPERM AND EGGS
Chang, Min Chueh Worcester Fdn for Exptl Biol Shrewsbury, Mass
DHEW Grant GM-14370 $36,960; 01/67-12/73 $167,920

164 IMMUNOLOGICAL CONTROL OF REPRODUCTION (effects of testicular homogenates on fertility)
Clegg, M. T. Tulane U Covington, La
DHEW Contract(NICHD) NIH 70-2314 $23,936; 06/70-06/71 $23,936

165 OOCYTE MATURATION AND FERTILIZATION RESEARCH
Cross, Patricia C. Pennsylvania, U of Philadelphia, Pa
DHEW Contract(NICHD) NIH 70-2150 $39,945; 05/70-05/71 $39,945

166 OVULATION & CAPACITATION IN THE NON-HUMAN PRIMATE
Dukelow, W. Richard Michigan State U East Lansing, Mich
DHEW Contract(NICHD) NIH 70-2061 $24,325; 06/70-06/71 $24,325

167 NATURE OF TRANSFORMATION OF HYALINE LAYER SUBSTANCES IN SEA URCHINS EGGS
Epel, David Scripps Inst Oceanography, UCSD La Jolla, Calif
NSF Grant GB-16155 $18,200; 01/70-12/70 $18,200

168 OVIDUCT SECRETIONS AND SPERM STUDIES
Foley, Charles W. Georgia, U of Athens, Ga
DHEW Contract(NICHD) NIH 70-2316 $12,300; 06/70-06/71 $12,300

169 FINE STRUCTURE OF CAPACITATION AND FERTILIZATION
Franklin, Luther E. Tulane U New Orleans, La
DHEW Grant HD-4233 $17,459; 05/69-04/71 $33,977

170 SPERM TRANSPORT & SURVIVAL IN THE FEMALE GENITAL TRACT
Gregoire, Adolphe T. Michigan, U of Ann Arbor, Mich
DHEW Contract(NICHD) NIH 70-2167 $32,723; 05/70-05/71 $32,723

171 THE CAPACITATION OF SPERMATOZOA IN UTERINE FLUID
Hafs, Harold David Michigan State U East Lansing, Mich
DHEW Grant HD-3039 $29,474; 10/67-09/70 $83,527

172 HORMONAL REGULATION OF SPERM IN THE FEMALE TRACT
Hamner, Charles E. Virginia, U of Charlottesville, Va
DHEW Grant HD-3516 $27,126; 05/68-04/71 $89,558

173 INHIBITION OF CAPACITATION - A CONTRACEPTIVE METHOD
Hamner, Charles E. Virginia, U of Charlottesville, Va
DHEW Contract(NICHD) NIH 69-2105 $22,956; 06/69-06/71 $44,744

174 A MOLECULAR APPROACH TO FERTILIZATION
Hedrick, Jerry L. California, U of Davis, Calif
DHEW Grant HD-4906 $58,630; 04/70-03/75 $231,861

175 DEVELOPMENTAL REGULATION OF MACROMOLECULAR METABOLISM
Humphreys, Tom D. California, U of San Diego, Calif
DHEW Grant HD-3480 $40,497; 08/67-05/73 $165,560

176 MEIOSIS AND FERTILIZATION OF HUMAN OVA IN VITRO
Klinger, Harold P. Yeshiva U New York, N.Y.
DHEW Contract(NICHD) NIH 69-2129 $38,918 06/69-06/71 $76,219

177 SPERM STUDIES (effect of antibodies on sperm in the female tract)
Metz, Charles B. Miami, U of Coral Gables, Fla
DHEW Contract(NICHD) NIH 70-2253 $92,300; 06/70-06/71 $92,300

178 STUDIES ON PRE-FERTILIZATION PHENOMENA IN HYDROIDS
Miller, Richard Lee Temple U Philadelphia, Pa
DHEW Grant HD-4543 $30,037; 11/69-10/72 $72,881

179 SYNTHESIS OF RNA DURING OOGENESIS IN SEA URCHINS
Piatigorsky, Joram P. NICHD Bethesda, Md
DHEW Intramural HD-DB11 $27,400;

180 STUDIES OF MAMMALIAN REPRODUCTIVE CELL MEMBRANES
Piette, Lawrence H. Hawaii, U of Honolulu, Hawaii
DHEW Contract(NICHD) NIH 70-2153 $56,099; 05/70-05/71 $56,099

181 MEMBRANE CHANGES DURING OOGENESIS AND FERTILIZATION
Rosenberg, Murray D. Minnesota, U of St Paul, Minn
DHEW Grant HD-4702 $48,344; 01/70-12/72 $125, 952

182 STUDY OF ROLE OF CORTICAL GRANULES IN FERTILIZATION
Schuel, Herbert New York, City U of New York, N.Y.

DHEW Contract(NICHD) NIH 69-2202 $44,532; 06/69-06/71 $103,921

183 PROTEASE INHIBITORS IN HUMAN GENITAL SECRETIONS
Schumacher, Gebhard F. B. Chicago, U of Chicago, Ill
DHEW Contract(NICHD) NIH 70-2317 $23,227; 06/70-06/71 $23,227

184 IMMUNOREPRODUCTION - MECHANISMS OF FERTILIZATION
Shivers, Charles A. Tennessee, U of Knoxville, Tenn
DHEW Grant HD-4020 $15,617; 01/69-12/71 $57,531

185 CAPACITATION OF MAMMALIAN SPERMATOZOA
Soupart, Pierre Vanderbilt U Nashville, Tenn
DHEW Grant HD-3769 $47,573; 11/68-10/71 $130,532

186 SPERM CAPACITATION CONTRACEPTION - ANIMAL STUDIES
Soupart, Pierre Vanderbilt U Nashville, Tenn
DHEW Contract(NICHD) NIH 70-2162 $44,278; 05/70-05/71 $44,278

187 REPRODUCTIVE BIOCHEMISTRY (enzyme studies of sperm acrosomes and seminal plasma inhibitors)
Srivastava, P. N. Georgia, U of Athens, Ga
DHEW Contract(NICHD) NIH 70-2147 $29,494; 05/70-05/71 $29,494

188 STUDY OF ACROSOMAL ENZYMES
Stambaugh, Richard L. Pennsylvania, U of Philadelphia, Pa
DHEW Contract(NICHD) NIH 70-2161 $28,250; 05/70-05/71 $28,250

189 STUDY OF BIOCHEMICAL REQUIREMENTS FOR FERTILIZATION
Williams, William L. Georgia, U of Athens, Ga
DHEW Contract(NICHD) NIH 69-2103 $45,351; 06/69-06/71 $79,473

190 STUDIES ON IN VITRO FERTILIZATION OF RODENT EGGS
Yanagimachi, Ryuzo Hawaii, U of Honolulu, Hawaii
DHEW Grant HD-3402 $30,732; 02/68-03/71 $94,129

191 MORPHOPHYSIOLOGIC STUDIES ON MAMMALIAN GAMETES
Zamboni, Luciano Los Angeles County Dept of Hosp Torrance, Calif
DHEW Contract(NICHD) NIH 69-2220 $42,416; 06/69-06/71 $66,199

ZYGOTE TRANSPORT, PREIMPLANTATION DEVELOPMENT AND IMPLANTATION

192 REGULATION OF GENE EXPRESSION IN DEVELOPMENT (blastocyst development)
Baker, Robert F. Southern California, U of Los Angeles, Calif
DHEW Grant HD-4015 $23,886; 02/69-01/72 $84,636

193 POTENTIAL USE OF ANTI-TROPHOBLAST SERUM AS CONTRACEPTIVE
Behrman, Samuel J. Michigan, U of Ann Arbor, Mich
DHEW Contract(NICHD) NIH 70-2155 $38,229; 05/70-05/71 $38,229

194 UTERINE SECRETIONS AND IMPLANTATION
Biggers, John D. John Hopkins U Baltimore, Md
DHEW Contract(NICHD) NIH 70-2166 $39,749; 05/70-05/71 $39,749

195 STUDIES ON THE PHYSIOLOGY OF EARLY PREGNANCY (oogenesis, cleavage and implantation)
Biggers, John D. Johns Hopkins U Baltimore, Md

DHEW Grant HD-3077 $11,811; 09/67-08/70 $37,542

196 STUDIES ON OOGENESIS, CLEAVAGE AND IMPLANTATION
Biggers, John D. Johns Hopkins U Baltimore, Md
DHEW Grant HD-4185 $36,390; 01/69-12/71 $118,420

197 SULFOMUCOPOLYSACCHARIDES IN THE UTERUS OF PREGNANCY
Bo, Walter J. Wake Forest U Winston-Salem, N.C.
DHEW Grant HD-1357 $11,977; 01/65-12/70 $69,570

198 STUDY IN EXPERIMENTAL METHODS OF INTERRUPTING PREGNANCY (microwave radiation)
Brent, Robert L. Thomas Jefferson U Philadelphia, Pa
DHEW Contract(NICHD) NIH 70-2306 $37,660; 06/70-06/71 $37,660

199 ENERGY METABOLISM IN PREIMPLANTED MAMMALIAN EMBRYOS
Brinster, Ralph L. Pennsylvania, U of Philadelphia, Pa
DHEW Grant HD-3071 $54,141; 02/68-01/73 $251,568

200 INHERITED CYTOGENETIC DEFECTS IN SPONTANEOUS ABORTION
Byrd, Jerome R. Georgia, Med Coll of Augusta, Ga
DHEW Grant HD-3324 $31,239; 06/68-05/71 $87,761

201 ASPECTS OF TROPHOBLAST DEVELOPMENT AND IMPLANTATION
Clark, Wallis H. Jr Houston, U of Houston, Texas
DHEW Contract(NICHD) NIH 69-2094 $29,571; 06/69-06/71 $48,400

202 SYNTHESIS OF RNA AND OF PROTEIN IN NON-NUCLEATE FRAGMENTS OF SEA URCHINS EGGS (after fertilization)
Craig, Sydney Pollock NICHD Bethesda, Md
DHEW Intramural HD-DB9 $13,700;

203 BLASTOCYST EXPANSION & PREOVULATORY FOLLICLE SWELLING
Cross, Morton Pennsylvania, U of Philadelphia, Pa
DHEW Contract(NICHD) NIH 69-2141 $28,697; 06/69-06/71 $52,625

204 ACTIONS OF ESTROGEN & PROGESTERONE ON PREGNANT UTERUS
Csapo, Arpad Istvan Washington U St Louis, Mo
DHEW Contract(NICHD) NIH 69-2194 $48,718; 06/70-06/71 $48,718

205 UTERINE PROTEINS IN MAMMALIAN EMBRYOGENES (effect on blastulation)
Daniel, Joseph C. Jr Colorado, U of Boulder, Colo
DHEW Grant HD-4165 $45,935; 06/69-05/72 $126,347

206 STUDIES ON NUTRITION OF THE PREPLACENTAL EMBRYOS OF THE MAMMAL
Daniel, Joseph C. Jr Colorado, U of Boulder, Colo
AEC Contract AT(11-1) 1597 $28,000; 04/66- $137,158

207 OOGENESIS AND THE CONTROL OF EMBRYONIC GENE ACTIVITY
Davidson, Eric H. Rockefeller U New York, N.Y.
DHEW Grant HD-2412 $21,713; 06/66-11/72 $84,066

208 PLACENTAL-OVARIAN INTERRELATIONSHIPS
Davies, Jack Vanderbilt U Nashville, Tennessee
DHEW Grant HD-0971 $17,665; 09/63-05/71 $125,369

209 STUDIES ON THE MECHANISM OF DECIDUALIZATION
De Feo, Vincent J. Hawaii, U of Honolulu, Hawaii
DHEW Grant HD-2399 $37,071; 09/66-08/73 $207,249

210 MAMMALIAN SPERM NUCLEOPROTEINS AFTER FERTILIZATION
Ecklund, Peter S. Child Res Ctr of Michigan Detroit, Mich
DHEW Grant HD-4767 $2,818; 01/70-12/71 $5,118

211 MECHANISMS OF IMPLANTATION IN MAMMALS
Enders, Allen C. Washington U Sch of Med St Louis, Mo
NSF Grant GB-20985 $17,100(est); 07/70-06/72 $34,200

212 PROTEIN AND RNA SYNTHESIS IN MAMMALIAN EMBRYOGENESIS
Epstein, Charles J. California, U of San Francisco, Calif
DHEW Grant HD-3132 $22,016; 06/68-05/71 $73,922

213 TRANSFER OF MATERNAL MACROMOLECULES TO MAMMALIAN EGGS
(mouse and rabbit)
Glass, Laurel E. California, U of San Francisco, Calif
DHEW Contract(NICHD) NIH 70-2309 $29,000; 06/70-06/71 $29,000

214 MATERNAL-EMBRYO INTERACTIONS DURING MAMMALIAN DEVELOPMENT
Glass, Laurel E. California, U of San Francisco Med Ctr
San Francisco, California
AEC Contract AT(11-1)-34 $35,000; 10/59- $318,273

215 EFFECT OF PROGESTERONE AND ESTRADIOL ON THE EARLY EMBRYO
Hahn, William Colorado, U of Denver, Colo
DHEW Contract(NICHD) NIH 70-2259 $26,197; 06/70-06/71 $26,197

216 CONTROL OF PROTEIN SYNTHESIS DURING EMBRYOGENESIS (study of
fertilization and early cleavage in sea urchin eggs)
Infante, Anthony A. Wesleyan U Middletown, Conn
DHEW Grant HD-3753 $20,579; 11/68-10/71 $69,412

217 STUDIES ON THE ANTIGENIC STATUS OF THE OVUM
Joshi, Susan Heyner Phila Coll of Pharm & Sci Phila, Pa
DHEW Contract(NICHD) NIH 70-2151 $24,514; 05/70-05/71 $24,514

218 MICRURGICAL STUDIES ON THE DEVELOPMENT OF MOUSE EGGS
Lin, Teh P. California, U of San Francisco, Calif
DHEW Grant HD-2186 $21,931; 05/66-04/71 $96,295

219 REGULATION OF GENE ACTION IN EARLY EMBRYOGENESIS
Malacinski, George M. Indiana U Bloomington, Ind
DHEW Grant HD-4671 $35,788; 01/70-12/72 $71,904

220 GENETIC EXPRESSION IN THE PREIMPLANTATION MAMMAL
Manes, Cole Colorado, U of Denver, Colorado
DHEW Grant HD-4274 $44,167; 01/70-12/72 $119,920

221 ROLE OF THE PINEAL GLAND IN DELAYED IMPLANTATION
Mead, Rodney Adair Idaho, U of Moscow, Idaho
DHEW Grant HD-4021 $13,185; 02/69-01/71 $28,671

222 SEQUENTIAL ASPECTS OF OCCURRENCE OF SPONTANEOUS ABORTION IN
FAMILY HISTORIES
Naylor, A. P. NINDS Bethesda, Md
DHEW Intramural NDS(CF) 65-PR/EG 1276

223 REGULATION OF RNA & PROTEIN SYNTHESIS IN EMBRYOGENESIS (early cleavage)
Nemer, Martin J. Inst for Cancer Res Philadelphia, Pa

DHEW Grant HD-4367 $40,780; 09/61-08/74 $209,567

224 COMPARATIVE UTERINE VASCULATURE
Orsini, Margaret Ward Wisconsin, U of Madison, Wis
DHEW Grant HD-0267 $40,819; 02/59-01/71 $293,467

225 ADRENERGIC PHARMACOLOGY OF OVUM TRANSPORT
Pauerstein, Carl J. Texas, U of San Antonio, Tex
DHEW Grant HD-4182 $11,704; 06/69-05/72 $36,373

226 CYTOPLASMIC REGULATION IN EARLY CELL DIFFERENTIATION (embryogenesis)
Smith, L. Dennis Purdue U Lafayette, Ind
DHEW Grant HD-4229 $29,698; 05/69-04/72 $89,424

227 REPRODUCTIVE SENESCENCE IN THE GOLDEN HAMSTER
Soderwall, A. L. Oregon, U of Eugene, Oreg
DHEW Grant HD-4234 $35,601; 11/69-10/72 $96,172

228 IDENTIFICATION OF LATENT FACTORS IN EMBRYONIC DEATH
Ulberg, Lester C. North Carolina State U Raleigh, N.C.
DHEW Grant HD-2923 $27,812; 07/67-06/71 $77,478

229 PHOTOPERIOD, IMPLANTATION AND PARTURITION
Yochim, Jerome M. Kansas, U of Lawrence, Kans
DHEW Grant HD-4016 $21,747; 06/69-05/72 $59,040

REPRODUCTIVE ENDOCRINOLOGY

Multiple or unspecified

230 CORPUS LUTEUM REGULATORY MECHANISMS
Armstrong, David Thomas Western Ontario, U of London, Canada
DHEW Contract(NICHD) NIH 69-2165 $45,208; 06/69-06/71 $81,716

231 METABOLIC AND ENDOCRINE EFFECTS OF PEPTIDE HORMONES
Beck, Paul Colorado, U of Denver, Colo
DHEW Grant HD-2455 $38,807; 12/66-11/72 $214,247

232 ENDOCRINE INFLUENCING CENTERS IN THE HYPOTHALAMUS
Bogdanove, Emanuel M. Grad Sch of Ind U Fdn Bloomington, Ind
DHEW Grant NS-3371 $49,408; 09/59-08/71 $410,151

233 POLYSTRENE-BOUND ANTIBODIES FOR RADIOIMMUNE ASSAYS (for protein and steroid hormones)
Falb, Richard D. Battelle Mem Inst Columbus, Ohio
DHEW Contract(NICHD) NIH 70-2308 $21,165; 06/70-12/70 $21,165

234 FERTILITY CONTROL AND CONTRACEPTION (steroid secretion and production)
Gandy, Hortense M. Cornell U New York, N.Y.
DHEW Contract(NICHD) NIH 70-2140 $52,305; 05/70-05/71 $52,305

235 PITUITARY AND HYPOTHALAMIC PROTEINS AND PEPTIDES
Geschwind, Irving I. California, U of Davis, Calif
DHEW Grant HD-0394 $63,789; 05/61-08/73 $397,441

236 CNS PITUITARY OVARY INTERRELATIONSHIPS
Greep, Roy O. Harvard U Boston, Mass
DHEW Grant HD-3736 $105,454; 09/53-08/72 $1,101,024

237 ENDOCRINE CONTROL OF ANIMAL REPRODUCTION
Hawk, Harold W. Agricultural Res Ctr Beltsville, Md
USDA Intramural 03-31-060-231-021 $75,000;

238 NERVOUS CONTROL OF PITUITARY
Hilliard, Jessamine O. U.S. Vet Adm Hosp Long Beach, Calif
VA Intramural ZO-12235

239 FACTORS CONTROLLING THE TIMING OF LH RELEASE
Hoffmann, Joan C. Rochester, U of Rochester, N.Y.
DHEW Grant HD-2060 $23,779; 05/66-01/72 $88,864

240 FOLLICLE STIMULATING HORMONE CONTROL IN THE MALE
Johnson, Donald C. Kansas, U of Kansas City, Kansas
DHEW Grant HD-3097 $16,921; 03/68-02/71 $49,878

241 STUDIES ON REPRODUCTIVE PHYSIOLOGY IN THE MACAQUE
Knobil, Ernst Pittsburgh, U of Pittsburgh, Pa
DHEW Grant HD-3968 $98,759; 06/61-12/73 $681,069

242 USE OF RADIOIMMUNOASSAY TO DETERMINE THE EFFECTS OF TESTOSTERONE ADMINISTRATION ON SERUM LEVELS OF FOLLICLE STIMULATING HORMONE IN MALES
Leonard, John M. U.S. Public Hlth Serv Hosp Seattle, Wash
DHEW Intramural(PHPS) 0-70-10 $1,000; 07/69-12/69

243 THE NATURE OF HORMONE-PRODUCING AND HORMONE-SENSITIVE TUMORS IN MAN, INCLUDING TUMORS OF BREAST, PROSTATE, UTERUS, PITUITARY ADRENAL, OVARY AND TESTIS; ABNORMALITIES OF SOMATIC DEVELOPMENT AND GROWTH
Lipsett, Mortimer P. Nat Cancer Inst Bethesda, Md
DHEW Intramural NCI-803 $721,000;

244 STUDIES OF TESTOSTERONE STERILIZED RAT
LLoyd, Charles W. Worcester Fdn for Exptl Biol Shrewsbury, Mass
DHEW Grant AM-8184 $62,663; 01/64-12/71 $407,048

245 CONTROL OF OVULATION AND CORPUS LUTEUM FUNCTION
Mahesh, Virendra B. Georgia, Medical Coll of Augusta, Ga
DHEW Contract(NICHD) NIH 70-2149 $43,760; 05/70-05/71

246 SURGICAL ENDOCRINOLOGY (pharmacology of gonadotropins)
Marshall, John R. Nat Cancer Inst Bethesda, Md
DHEW Intramural NCI-3813

247 PITUITARY OVARIAN UTERINE RELATIONSHIPS
Melampy, Robert M. Iowa State U of Science & Tech Ames, Iowa
DHEW Grant HD-1168 $60,690; 01/60-12/70 $471,068

248 ENDOCRINE REGULATION OF REPRODUCTION (including LH, FSH, prolactin and corresponding releasing factors - radioimmune assays)
Midgley, A. Rees Jr Michigan, U of Ann Arbor, Mich
DHEW Grant HD-4105 $92,272; 02/69-01/74 $424,384

249 ENDOCRINOLOGY OF REPRODUCTION OF DOMESTIC ANIMALS
Nalbandov, Andrew V. Illinois, U of Urbana, Ill
DHEW Grant HD-3043 $108,058; 01/63-12/72 $396,948

250 ASPARTATE CARBAMYLTRANSFERASE OF REPRODUCTIVE TISSUES
Nishikawara, Margaret T. Ohio State U Columbus, Ohio
DHEW Grant HD-5040 $18,197; 06/70-05/72 $30,797

251 ENDOCRINE REGULATION OF THE CORPUS LUTEUM
Niswender, Gordon Dean Michigan, U of Ann Arbor, Mich
DHEW Contract(NICHD) NIH 69-2134 $37,220; 06/70-06/71 $37,220

252 HORMONAL CONTROL OF ESTROUS ACTIVITY RHYTHM
Peretz, Ephraim oreg Reg Primate Res Ctr Beaverton, Oregon
VA Intramural ZO-28619

253 THE ROLE OF LIGHT IN CNS-PITUITARY-GONADAL CONTROL
Piacsek, Bela E. Marquette U Milwaukeee, Wis
DHEW Grant HD-4375 $50,684; 11/69-10/72 $99,986

254 MECHANISMS OF STEROID HORMONE ACTION & INTERACTION
Roberts, Clara S. California, U of Los Angeles, Calif
DHEW Grant CA-01488 $1,241; 09/53-08/69 $401,975

255 MECHANISMS OF HORMONE ACTION
Roberts, Clara S. California, U of Los Angeles, Calif
DHEW Grant HD-4354 $51,331; 07/51-08/72 $524,610

256 STUDIES ON THE OVARIAN-HYPOTHALAMIC-HYPOPHYSEAL AXIS
Sawyer, Charles H. California, U of Los Angeles, Calif
DHEW Grant HD-1182 $55,317; 09/62-10/73 $458,569

257 STUDY OF THE RAT ESTROUS CYCLE
Schwartz, Neena Betty Illinois, U of Chicago, Ill
DHEW Contract(NICHD) NIH 70-2307 $41,500; 06/70-06/71 $41,500

258 BIOCHEMICAL STUDIES ON STEROIDS AND PROSTAGLANDINS
Sih, Charles J. Wisconsin, U of Sch of Pharmacy Madison, Wis
DHEW Grant AM-9688 $27,013; 06/65-05/75 $406,677

259 HYPOTHALAMO-HYPOPHYSIAL CONTROL OF THE GONAD
Spies, Harold Glen Tulane U New Orleans, La
DHEW Grant HD-3732 $17,153; 05/69-04/73 $67,285

260 ENDOCRINE FACTORS IN REPRODUCTION
Tullner, William W. NICHD Bethesda, Md
DHEW Intramural HD-RP-2 07/69-06/70 $148,400

261 STUDIES IN REPRODUCTIVE BIOCHEMISTRY AND MEDICINE
Vande Wiele, Raymond L. Columbia U New York, N.Y.
DHEW Prog Proj HD-5077 $232,355; 05/70-04/75 $1,756,910

Neuroendocrinology

262 CNS REGULATION OF REPRODUCTION IN FEMALE GUINEA PIGS

Barraclough, Charles A. Maryland, U of Baltimore, Md
DHEW Grant HD-1514 $3,254; 04/65-03/70 $95,026

263 REGULATION OF REPRODUCTION IN RODENT POPULATIONS
Bronson, Franklin H. Texas, U of Austin, Texas
DHEW Grant HD-4149 $32,858; 09/68-08/74 $196,562

264 INFLUENCE OF MALE PHEROMONES ON BEHAVIOR
Clemens, Lynwood G. Michigan State U East Lansing, Mich
DHEW Grant MH-17808 $7,494;

265 NEURAL MECHANISMS AND CYCLIC PITUITARY FUNCTIONS
Critchlow, B. Vaughn Baylor U Coll of Med Houston, Texas
DHEW Grant AM-3385 $37,501; 09/59-08/72 $360,902

266 OLFACTORY INFLUENCES: AN ELECTROPHYSIOLOGICAL STUDY
Curry, John J. Boston U Boston, Mass
NSF Grant GB-17216 $17,500(est); 01/70-01/72 $35,000

267 ROLE OF THE BRAIN IN MALE AND FEMALE REPRODUCTION
Davidson, Julian M. Stanford U Stanford, Calif
DHEW Grant HD-0778 $64,000; 05/64-10/71 $349,378

268 CHEMICAL ULTRASTRUCTURE OF NORMAL AND ABERRANT NERVOUS SYSTEM
Doolin, Paul F. U.S. Vet Adm Hosp Hines, Ill
VA Intramural ZO-30432

269 CHEMICAL COMMUNICATION IN PRIMATES (pheromones)
Epple, Gisela University City Science Ctr Philadelphia, Pa
NSF Grant GB-12660 $18,150; 08/69-08/71 $36,300

270 NEUROHUMORAL CONTROL OF THE ADENOHYPOPHYSIS
Evans, James S. Tennessee, U of Memphis, Tennessee
DHEW Grant HD-2457 $4,883; 01/67-05/70 $65,961

271 NEURAL MECHANISMS CONTROLLING THE PITUITARY GLAND
Everett, John W. Duke U Durham, N.C.
NSF Grant GB-21025 $26,500; 09/70-09/72 $53,000

272 HYPOTHALAMIC NEUROHUMORS CONTROLLING PITUITARY FUNCTION
Guillemin, Roger Baylor U Coll of Med Houston, Texas
DHEW Grant AM-14894 $105,879; 01/64-05/70 $1,055,632

273 HYPOTHALAMIC NEUROHUMORS AND PITUITARY
Guillemin, Roger Salk Inst for Biological Sciences San Diego, Cal
DHEW Grant AM-14894 $125,759; 06/70-12/70

274 BASE LINE STUDY OF PRIMATE NEUROPHYSIOLOGY
Hagino, Nobuyoshi Southwest Fdn for Res & Educ San Antonio, Tex
NSF Grant GB-8788 $5,000;

275 STUDY OF NEURAL REGULATION OF OVARIAN FUNCTION
Hagino, Nobuyoshi Southwest Fdn for Res & Educ San Antonio, Tex
DHEW Contract(NICHD) NIH 69-2133 $31,146; 06/70-06/71 $31,146

276 CENTRAL NERVOUS REGULATION OF REPRODUCTION
Haller, Edwin Maryland, U of Baltimore, Md
DHEW Grant HD-2138 $96,329; 09/62-08/74 $658,771

277 PINEAL-HYPOTHALAMIC INTERRELATIONSHIPS
Hoffman, Roger A. Colgate U Hamilton, N.Y.
DHEW Grant MH-18203 $4,730; 02/70-01/71

278 TOPOGRAPHY OF HYPOTHALAMIC RELEASING FACTORS
Luciano, Martini Milano, U of Milano, Italy
DHEW Grant AM-11783 $12,240; 06/68-05/71 $39,840

279 DETECTION OF LUTEINIZING HORMONE RELEASING FACTOR IN HUMAN PERIPHERAL AND PORTAL-HYPOPHYSEAL BLOOD
Malacara, Juan U.S. Vet Adm Hosp Newington, Conn
VA Intramural ZO-30339

280 NEUROHUMORAL CONTROL OF THE ANTERIOR PITUITARY
McCann, S. M. Texas, U of Southwestern Med Sch Dallas, Tex
DHEW Grant AM-10073 $74,201; 09/56-08/71 $623,617

281 CONTROL OF SECRETION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES
Meites, Joseph Michigan State U East Lansing, Mich
DHEW Grant AM-4784 $30,331; 01/61-12/73 $401,661

282 ELECTRON MICROSCOPY OF STALK AND NEURAL LOBE OF PITUITARY
Monroe, Barbara Granger Southern California, U of Los Angeles, Calif
DHEW Grant NS-2321 $19,769; 12/60-12/70 $176,685

283 THE PHYSIOLOGIC CONTROL OF PROLACTIN SECRETION
Neill, Jimmy Dyke Emory U Atlanta, Ga
DHEW Grant HD-4312 $25,027; 06/69-05/72 $73,579

284 HYPOTHALAMIC INFLUENCE OF GONADOTROPHIN HORMONE RELEASE
Nikitovitch-Winer, Miroslava B. Kentucky, U of Med Ctr Fund Adv Educ & Res Lexington, Ky
DHEW Grant AM-5086 $21,920; 06/61-12/70 $180,819

285 INFLUENCE OF BIOGENIC AMINES OF REPRODUCTIVE FUNCTION (neuroendocrinology - role of 5HTP and 5HT in regulation of reproductive function)
O'Steen, W. Keith Emory U Atlanta, Ga
DHEW Grant HD-4102 $23,330; 04/69-03/72 $61,783

286 HYPOTHALAMIC CONTROL OF ACTH AND LH SECRETION
Porter, John C. Texas, U of Southwestern Med Sch Dallas, Tex
DHEW Grant AM-1237 $47,519; 09/56-08/72 $567,368

287 NEURAL BASIS FOR EFFECTS OF ENVIRONMENT ON FERTILITY
Printz, Richard H. Cincinnati, U of Cincinnatti, Ohio
DHEW Grant HD-4969 $20,222; 06/70-05/73 $51,081

288 MECHANISMS OF NEURAL CONTROL OF METABOLIC FUNCTIONS
Reichlin, Seymour Connecticut, U of Sch of Med Farmington, Conn
DHEW Grant AM-13695 $61,498; 06/69-03/74 $330,104

289 PINEAL-ENDOCRINE RELATIONSHIPS IN RODENTS
Reiter, Russel J. Rochester, U of Rochester, N.Y.
DHEW Grant HD-2937 $44,174; 06/67-05/73 $166,156

290 NEUROCHEMISTRY OF THE DIENCEPHALON
Schally, Andrew V. Tulane U Sch of Med New Orleans, La

DHEW Grant AM-7467 $81,927; 09/63-11/71 $439,620

291 FINE STRUCTURAL CORRELATES OF PINEAL GLAND FUNCTION
Sheridan, Michael N. Rochester, U of Rochester, N.Y.
DHEW Grant AM-12948 $8,586; 05/69-04/72 $32,946

292 HORMONE FEED-BACK CONTROL IN HYPOTHALAMUS
Stumpf, Walter E. North Carolina, U of Chapel Hill, N.C.
DHEW Grant AM-14929 $33,851; 05/68-05/71 $100,604

293 NEURAL CONTROL OF GONADAL FUNCTION
Taleisnik, Samuel Inst Invest Medica Mercedes Y Martin Ferreyra Cordoba, Argentina
DHEW Grant NS-4732 $8,500; 01/64-05/70 $262,250

294 EFFECTS OF OLFACTORY LESIONS ON REPRODUCTION (including pheromones)
Wenzel, Bernice M. Zoological Soc of San Diego San Diego, Calif
DHEW Grant MH-18254 $5,814; 01/70-01/71

295 MAMMALIAN EGGS AND PHEROMONES
Whitten, Wesley K. Jackson Lab Bar Harbor, Maine
DHEW Grant HD-4083 $64,086; 01/69-12/73 $277,212

Pituitary and Placental hormones

296 PROTEIN HORMONES IN THE BODY FLUIDS OF MAN
Albert, A. Mayo Fdn Rochester, Minn
DHEW Grant AM-1738 $78,453; 09/57-08/72 $1,096,934

297 CHEMICAL AND BIOLOGICAL STUDIES ON CHORIONIC GONADOTROPIN
Bahl, O. P. Res Fdn of State Univ of New York Albany, N.Y.
DHEW Grant AM-10273 $45,777; 09/66-08/74 $247,523

298 STUDIES OF PITUITARY HORMONES IN HYPOPITUITARISM (release and metabolism of pituitary gonadotropins)
Blizzard, Robert M. Johns Hopkins U Baltimore, Md
DHEW Grant HD-1852 $39,427; 06/65-05/73 $230,266

299 STRUCTURE ACTIVITY STUDIES ON PITUITARY GONADOTROPINS
Cahill, Charles L. Oklahoma City U Oklahoma City, Okla
DHEW Grant AM-6401 $18,769; 09/62-03/72 $209,425

300 HUMAN CHORIONIC GONADOTROPIN STUDIES
Canfield, Robert E. Columbia U New York, N.Y.
DHEW Contract(NICHD) NIH 70-2251 $47,300; 06/70-06/71 $47,300

301 NEUROHYPOPHYSEAL FUNCTION IN MAN
Dingman, Joseph Francis Peter Bent Brigham Hosp Boston, Mass
DHEW Grant HD-3006 $18,631; 01/67-08/70 $166,982

302 IMMUNOLOGICAL PURIFICATION OF GONADOTROPINS
Ely, Charles A. Columbia U New York, N.Y.
DHEW Grant HD-4471 $40,645; 01/70-12/72 $112,595

303 STUDIES ON SECRETION IN ANTERIOR PITUITARY CELLS

Farquhar, Marilyn G. California, U of San Francisco Med Ctr
San Francisco, Calif
DHEW Grant AM-9090 $38,009; 01/65-12/72 $286,384

304 HUMAN PITUITARY PROLACTIN
Freeman, Ruth G. Yeshiva U New York, N.Y.
DHEW Grant HD-3601 $20,250; 12/68-11/70 $38,330

305 SECRETION AND METABOLISM OF PROLACTIN
Greenwood, Frederick C. Hawaii, U of Honolulu, Hawaii
DHEW Grant AM-13217 $38,729; 01/69-12/71 $125,357

306 IMMUNOASSAY OF LH IN BLOOD
Hansel, William Cornell U Ithaca, N.Y.
DHEW Grant HD-2765 ; 02/67-01/70 $100,140

307 PRIMARY STRUCTURE OF PITUITARY GONADOTROPINS
Kathan, Ralph H. Illinois, U of Chicago, Ill
DHEW Grant HD-3872 $13,500; 02/69-01/72 $41,229

308 PITUITARY LACTOGENIC AND GONADOTROPIC HORMONE
Li, C. H. California, U of San Francisco Med Ctr
San Francisco, Calif
DHEW Grant AM-6097 $70,499; 09/62-08/74 $674,182

309 MECHANISM OF ACTION OF LUTEINIZING HORMONE
Marsh, John M. Miami, U of Miami, Fla
DHEW Grant HD-3142 $24,108; 09/67-08/70 $82,567

310 IMMUNOBIOLOGY OF PITUITARY HORMONES; REGULATION OF FSH AND LH
Parlow, Albert F. Attending Staff Assoc, Harbor Gen Hosp
Torrance, Calif
DHEW Grant AM-11214 $41,660; 02/67-01/72 $202,641

311 ULTRASTRUCTURE OF PITUITARY HORMONE SECRETION
Rennels, Edward G. Texas, U of Med Sch San Antonio, Tex
DHEW Grant AM-12583 $33,316; 01/69-12/71 $76,849

312 CHARACTERIZATION OF HUMAN PITUITARY GONADOTROPINS
Rosemberg, Eugenia Med Res Inst of Worcester, Inc. Worcester, Mass
DHEW Grant AM-7564 $80,604; 09/59-08/72 783,283

313 STUDY OF HUMAN PITUITARY GONADOTROPINS
Ryan, Robert J. Mayo Fdn Rochester, Minn
DHEW Grant HD-3726 $73,524; 01/68-12/70 $212,449

314 NEW METHOD FOR FERTILITY REGULATION (hypothalamo-hypophyseal
factors in reproduction)
Saffran, Murray Med Coll of Ohio at Toledo Toledo, Ohio
DHEW Contract(NICHD) NIH 69-2193 $70,555; 06/70-06/71 $70,555

315 CONTROL OF ANTERIOR PITUITARY HORMONE BIOSYNTHESIS
Samli, Marcqueta H. Virginia Polytechnic Inst Blacksburg, Va
DHEW Grant AM-13776 $22,056; 11/69-10/72 $62,293

316 ACTION OF GONADOTROPINS IN GONADAL TISSUES
Savard, Kenneth Miami, U of Miami, Fla
DHEW Grant HD-3248 $100,389; 01/58-12/72 $988,625

317 PITUITARY GONADOTROPHIC & GROWTH HORMONE
Saxena, Brij B. Cornell U Med Coll New York, N.Y.
DHEW Grant AM-11187 $5,765; 01/67-04/70 $149,119

318 HUMAN CHORIONIC GONADOTROPHIN (purification and chemical characterization)
Schlaff, Sheldon Thomas Jefferson U Philadelphia, Pa
DHEW Grant HD-4714 $36,034; 01/70-12/72 $75,739

319 DEVELOPMENT OF RADIOIMMUNE ASSAY FOR MONKEY GONADOTROPINS
Shipley, Elva G. Endocrine Labs of Madison Inc Madison, Wis
DHEW Contract(NICHD) NIH 70-2250 $78,553; 06/70-06/71 $78,553

320 IN VITRO BIOSYNTHESIS OF PITUITARY HORMONES
Tamaoki, Bun-ichi Nat Inst of Radiological Sci Chiba-shi, Japan
DHEW Grant AM-7715 $7,900; 09/64-08/70 $63,450

321 THE CHEMISTRY OF LUTEINIZING HORMONE
Ward, Darrell N. Texas, U of M.D. Anderson Hosp & Tumor Inst Houston, Texas
DHEW Grant AM-9801 $57,171; 09/65-08/70 $313,153

322 PRODUCTION OF PITUITARY HORMONES FOR USE IN RESEARCH
Wilhelmi, Alfred E. Emory U Atlanta, Ga
DHEW Grant AM-3598 $149,769; 09/59-08/72 $1,556,219

Steroid hormones

323 FATE OF STEROID HORMONES APPLIED TO TARGET ORGANS
Baggett, Billy Med U of South Carolina Charleston, S.C.
DHEW Grant AM-14316 $30,560; 09/57-04/71 $368,880

324 ESTROGEN CONTROL OF FEMALE REPRODUCTIVE TISSUES DURING GROWTH, ESTROUS CYCLE, AND IN IMPLANTATION; PLACENTAL DEVELOPMENT AND GESTATION
Bitman, Joel Agricultural Res Ctr Beltsville, Md
USDA Intramural $67,000; 12/68-12/73 $165,000

325 AGGRESSIVENESS AND ANDROGEN PRODUCTION IN XYY MALES
Boon, Donald A. Childrens Hosp of Buffalo Buffalo, N.Y.
DHEW Grant HD-5023 $18,956; 01/70-12/72 $50,738

326 THE PHYSIOLOGICAL ROLE OF ESTROGEN SULFATES
Brooks, Sam C. Detroit Inst of Cancer Res Detroit, Mich
DHEW Grant CA-4519 $19,631; 04/59-09/71 $250,326

327 DEUTERIUM LABELED STEROIDS FOR STUDY IN HUMANS
Charles, David Boston U Boston, Mass
DHEW Grant HD-3494 $39,133; 03/68-02/71 $127,064

328 ESTROGEN RECEPTORS AND REPRODUCTIVE FUNCTION
Clark, James Henry Purdue U Lafayette, Ind
DHEW Grant HD-4985 $43,067; 05/70-04/73 $88,571

329 STUDY OF PROGESTERONE ACTION (neural regulation of sexual receptivity and ovulation)

Clemens, Lynwood G. Michigan State U East Lansing, Mich
DHEW Contract(NICHD) NIH 70-2260 $20,300; 06/70-06/71 $20,300

330 DIHYDROTESTOSTERONE FORMATION AND ANDROGEN TRANSPORT (in the testis)
Eik-Nes, Kristen B. Southern California, U of Los Angeles, Calif
DHEW Contract(NICHD) NIH 69-2097 $45,250; 06/69-06/71 $81,250

331 ESTROGEN BINDING IN RECEPTIVE ORGANS (rat uterus, vagina, anterior pituitary and hypothalamus)
Eisenfeld, Arnold J. Yale U New Haven, Conn
DHEW Contract(NICHD) NIH 70-2258 $39,141; 06/70-06/71 $39,141

332 PATTERNS OF STEROID METABOLISM IN CANCER
Engel, Lewis L. Harvard Med Sch Boston, Mass
DHEW Grant CA-1393 $159,737; 03/53-02/74 $1,574,476

333 HORMONAL REGULATION OF BEHAVIOR
Feder, Harvey Herman Rutgers, The State U Newark, N.J.
DHEW Grant HD-4467 $64,768; 10/69-09/73 $151,634

334 METABOLISM OF OVARIAN HORMONES IN THE RHESUS MONKEY
Flickinger, George L. Pennsylvania, U of Philadelphia, Pa
DHEW Contract(NICHD) NIH 70-2312 $32,867; 06/70-06/71 $32,867

335 ANDROGEN METABOLISM (including study of ovarian and pituitary function and radioimmune assays of various hormones)
Gandy, Hortense M. Cornell U Coll of Med New York, N.Y.
DHEW Grant AM-7328 $1,983; 09/63-02/70 $205,105

336 MECHANISM OF ACTION OF ESTROGENS (uterine growth)
Gorski, Jack Illinois, U of Urbana, Ill
DHEW Grant HD-4828 $107,483; 06/62-05/75 $794,245

337 DYNAMICS OF METABOLISM OF STEROIDS AND NUCLEOSIDES (including permeability of human endometrium to estrogen, androgen and progesterone)
Gurpide, Erlio Minnesota, U of Minneapolis, Minn
DHEW Grant HD-5363 $90,620; 06/70-05/73 $240,983

338 BIOSYNTHESIS AND ACTION OF FEMALE HORMONES
Hagerman, Dwain D. Colorado, U of Denver, Colo
DHEW Grant HD-5085 $30,212; 12/69-11/72 $86,982

339 STEROID RECEPTORS IN TARGET TISSUES
Heinrichs, William L. Washington, U of Seattle, Wash
DHEW Grant HD-4783 $18,687; 06/70-05/73 $44,533

340 STEROIDS IN REPRODUCTIVE PHYSIOLOGY (induction of ovulation in infertile patients)
Herrmann, Walter L. Washington, U of Seattle, Wash
DHEW Grant HD-3286 $60,021; 07/61-12/70 $381,399

341 BIOSYNTHESIS AND PHYSIOLOGY OF OVARIAN STEROIDS
Hilliard, Jessamine O. California, U of Los Angeles, Calif
DHEW Grant HD-1177 $49,642; 04/62-01/73 $382,705

342 METABOLISM OF ANDROSTENEDIONE AND TESTOSTERONE
Horton, Richard Southern California, U of Los Angeles, Calif
DHEW Grant AM-13710 $25,056; 05/64-03/72 $191,837

343 ROLE OF STEROID SULFATES IN GONADAL TISSUE
Jaffe, Robert B. Michigan, U of Ann Arbor, Mich
DHEW Grant HD-4064 $32,833; 02/69-01/72 $83,901

344 STEROIDS AND GROWTH (sex steroid hormones and "estrogen receptors")
Jensen, Elwood V. Chicago, U of Chicago, Ill
DHEW Grant CA-2897 $72,337; 09/57-08/71 $978,350

345 STUDY OF ESTROGEN AND PROGESTERONE BINDING SUBSTANCES (during estrous cycle and early pregnancy)
Jiang, Nai-Siang Mayo Fdn Rochester, Minn
DHEW Contract(NICHD) NIH 70-2305 $40,960; 06/70-06/71 $40,960

346 MECHANISMS OF ANDROGEN ACTION
Kochakian, Charles D. Alabama, U of (Med) Ctr Birmingham, Ala
DHEW Grant AM-11060 $56,800; 06/67-05/72 $324,295

347 PROGESTERONE PRODUCTION AND METABOLISM (during the menstrual cycle)
Little, A. Brian Case Western Reserve U Cleveland, Ohio
DHEW Contract(NICHD) NIH 70-2145 $30,430; 06/70-06/71 $30,430

348 DYNAMIC METABOLISM AND SECRETION OF ESTROGENS
Longcope, Christopher Worcester Fdn For Exptl Biol Shrewsbury, Mass
DHEW Grant AM-11252 $43,834; 01/67-12/72 $215,320

349 ESTROGEN ACTION AND PROTEIN SYNTHESIS
Nicolette, John A. Illinois, U of Chicago, Ill
DHEW Grant AM-11882 $21,528; 09/67-11/70 $58,287

350 STUDIES OF THE ESTROGEN-BINDING PROTEIN (in the hypothalamus, pituitary and uterus)
Notides, Angelo O. Rochester, U of Rochester, N.Y.
DHEW Contract(NICHD) NIH 70-2254 $33,450; 06/70-06/71 $33,450

351 COMPETITIVE PROTEIN BINDING IN STEROID ANALYSES
Nugent, Charles A. Hawaii, U of Sch of Med Honolulu, Hawaii
DHEW Grant AM-11455 $32,162; 08/67-08/70 $108,004

352 REPRODUCTIVE HORMONES - BIOLOGY AND MOLECULAR ACTIONS (estrogen and progesterone)
O'Malley, Bert W. Vanderbilt U Nashville, Tenn
DHEW Grant HD-4473 $131,800; 09/69-08/74 $388,400

353 DETERMINATION OF ESTROGENS IN URINE AND PLASMA
Preedy, John R. K. Emory U Atlanta, Ga
DHEW Grant AM-2221 $59,582; 09/58-11/73 $847,411

354 STEROIDOGENESIS IN HUMAN ENDOCRINE TISSUE
Rice, Bernard F. Alton Ochsner Med Fdn New Orleans, La
DHEW Grant AM-9895 $28,016; 01/66-02/72 $119,173

355 ESTROGEN BINDING IN HUMAN SERUM
Rosner, William Roosevelt Hosp New York, N.Y.
DHEW Grant AM-11852 $20,143; 09/67-08/70 $62,528

356 STEROID 3-BETA-OL-DEHYDROGENASE AND OVARIAN SECRETION
Rubin, Betty L. Mt Sinai Sch of Med New York, N.Y.
DHEW Grant HD-3527 $41,481; 06/68-05/71 $119,905

357 STEROID HORMONE METABOLISM (general biochemical study of steroids including estrogen)
Ryan, Kenneth J. Case Western Reserve U Cleveland, Ohio
DHEW Grant HD-3055 $58,274; 09/61-06/70 $284,157

358 MODE OF ACTION OF PROGESTATIONAL HORMONES
Salhanick, Hilton A. Harvard Sch of Public Hlth Boston, Mass
DHEW Grant AM-10081 $45,497; 02/62-08/71 $463,726

359 ESTROGEN METABOLISM IN NORMAL AND CANCEROUS PERSONS
Slaunwhite, W. Roy Jr Children's Hosp of Buffalo Buffalo, N.Y.
DHEW Grant CA-11791 $54,985; 09/70-12/70

360 STUDIES IN ANDROGEN METABOLISM
Southren, A. Louis New York Med Coll New York, N.Y.
DHEW Grant AM-12845 $63,730; 06/70-05/73 $176,963

361 MECHANISM OF HORMONE ACTION IN REPRODUCTIVE ORGANS (interaction testicular and ovarian steroids with sex accessory organs)
Spaziani, Eugene Iowa, U of Iowa City, Iowa
DHEW Grant HD-0446 $22,956; 06/60-04/73 $294,172

362 STUDIES ON STEROID HORMONE RECEPTORS (in the uterus and oviduct)
Taft, David O. Vanderbilt U Nashville, Tenn
DHEW Contract(NICHD) NIH 70-2165 $40,088; 06/70-06/71 $40,088

363 A STUDY OF ADRENAL AND OVARIAN SECRETIONS (determination of steroids in blood, urine and tissue and study of metabolic pathways)
Touchstone, Joseph C. Pennsylvania, U of Philadelphia, Pa
DHEW Grant HD-1199 $64,375; 09/57-05/73 $617,084

364 MECHANSIM OF ACTION OF STEROID HORMONES (sex hormones)
Villee, Claude A. Jr Harvard U Boston, Mass
DHEW Grant HD-1232 $26,460; 09/54-08/70 $305,947

365 BIOSYNTHESIS AND ACTION OF STEROIDS
Warren, James C. Kansas, U of Med Sch Kansas City, Kansas
DHEW Grant AM-5546 $17,907; 09/61-08/72 $211,117

366 EXTRAHEPATIC METABOLISM OF STEROIDS (progesterone)
Wiest, Walter G. Washington U St Louis, Mo
DHEW Grant AM-9125 $77,282; 01/62-03/75 $725,667

367 METABOLISM OF NATURAL AND SYNTHETIC ESTROGENS
Williams, Kenneth I. H. Worcester Fdn Exptl Biol Shrewsbury, Mass
DHEW Grant AM-13582 $23,408; 05/69-04/72 $67,228

368 ACTION OF HORMONES ON PROTEIN AND RNA METABOLISM
Wilson, Jean Texas, U of Southwestern Med Sch Dallas, Tex
DHEW Grant AM-3892 $28,125; 06/60-05/71 $288,125

369 THE INDUCTION OF HISTIDINE DECARBOXYLASE ACTIVITY BY ESTROGEN AND PROGESTERONE

Zeppa, Robert U.S. Vet Adm Hosp Miami, Fla
VA Intramural ZO-25578

PHARMACOLOGICAL STUDIES OF NATURAL OR SYNTHETIC AGENTS (other than presently used contraceptives) AFFECTING REPRODUCTION AND FERTILITY

370 THE DEVELOPMENT OF INHIBITORS TO ESTROGEN BIOSYNTHESIS
Brodie, Harry J. Worcester Fdn Exptl Biol
Shrewsbury, Mass
DHEW Contract(NICHD) NIH 70-2158 $43,634; 06/70-06/71 $43,634

371 COMBINED AGENT FOR DISEASE PROPHYLAXES AND CONTRACEPTION
Cutler, John C. Pittsburgh, U of Pittsburgh, Pa
AID Contract 931-17-570-526 $581,000; 06/70-06/73 $581,000

372 PROTEIN BINDING OF CORTICOSTEROID (STUDIES OF THE INFLUENCE OF various estrogenic preparations, progestational and anabolic agents)
Doe, Richard P. U.S. Vet Adm Hosp Minneapolis, Minn
VA Intramural ZO-6195

373 THE EFFICACY OF TESTOSTERONE FILLED IMPLANTS IN RABBITS
Ewing, Larry L. Okla St U Agr App Sci Stillwater, Okla
DHEW Contract(NICHD) NIH 70-2152 $28,917; 05/70-05/71 $28,917

374 SITE OF ACTION OF CLOMIPHENE (induction of ovulation and alteration of hypothalamic-hypophyseal function)
Gellert, Ronald J. Pacific Northwest Res Fdn Seattle, Wash
DHEW Grant HD-3588 $7,165; 05/68-12/70 $53,170

375 DEVELOPMENT OF INHIBITORS OF LH RELEASING FACTORS AS CONTRACEPTIVE AGENTS
Guillemin, Roger Salk Inst Biological Studies San Diego, Calif
AID Contract 931-17-570-518 $2,255,000; 06/70-05/73 $2,255,000

376 ONCE-A-MONTH CONTRACEPTIVE PILL (role of corpus luteum)
Harper, Michael J. K. Worcester Fdn Exptl Biol Shrewsbury, Mass
AID Contract 931-17-580-493 ; 06/68-06/71 $109,000

377 MECHANISMS OF DESTRUCTION OF TESTICULAR CELLS FOLLOWING IMMUNIZATION WITH SPECIFIC ANTIGEN
Katsh, Seymour Colorado, U of Denver Med Ctr Denver, Colorado
NSF Grant GB-14830 $32,500(est) 01/7[illegible]/72 $65,000

378 PROSTAGLANDIN AND OTHER RESEARCH FO[illegible]VELOPMENT OF CONTRACEPTIVES
Lloyd, Charles W. Worcester Fdn For Exptl Biol
Shrewsbury, Mass
AID Contract 931-17-580-520 $2,980,000; 06/70-06/73 $2,980,000

379 THE NATURE AND MODE OF ACTION OF MALUCIDIN
Mandl, Ines Columbia U New York, N.Y.
DHEW Grant HD-3256 $17,318; 09/67-08/70 $48,829

380 NEW METHODS OF FERTILITY REGULATION (prostaglandins and

smooth muscle of male sex organs)
Risley, Paul Lemuel Oregon, U of Eugene, Oreg
DHEW Contract(NICHD) NIH 69-2099 $34,000; 06/69-06/71 $65,775

381 SCREENING FOR INHIBITORS OF PROGESTERONE SYNTHESIS
Salhanick, Hilton A. Harvard U Cambridge, Mass
DHEW Contract(NICHD) NIH 70-2319 $45,120; 06/70-06/71 $45,120

382 CONTRACEPTIVE DEVELOPMENT (ANTI-PROGESTATIONAL ACTIVITY) (interference with progestational stimulation of the endometrium before or at the time of implantation)
Segal, Sheldon J. Population Council New York, N.Y.
AID Contract 931-17-580-512 06/69-06/73 $3,000,000

FERTILITY REGULATION TECHNIQUES PRESENTLY IN USE

CONTRACEPTIVES

Multiple or unspecified

383 CHEMICAL RESEARCH ON VARIOUS CONTRACEPTIVE METHODS
Koetsawang, Suporn Siriraj Hosp & Med Sch, Mahidol U Thailand
AID Other 493-11-580-209 $4,000; /68- /70 $8,500

384 CLINICAL RESEARCH TRIALS OF VARIOUS CONTRACEPTIVE METHODS
Somboonsuk, Aree Chulalongkorn Hosp & Med Sch Bangkok, Thailand
AID Other 493-11-580-209 $2,000; /68- /70 $12,500

385 THE EFFECTS OF PREGNANCY CONTROL DRUGS AND DEVICES ON THE HUMAN MENSTRUAL CYCLE AND ON HEALTH
Treloar, Alan E. NICHD Bethesda, Md
DHEW Intramural HD-RP6(9)(c) $19,200;

Steroid contraceptives

386 EFFECTS OF PREGNANCY AND STEROIDS ON ARTERIES (including effects of oral contraceptives)
Albert, Ernest N. George Washington U Sch of Med Wash, D.C.
DHEW Grant HE-12557 $4,000(est); 07/68-08/72

387 STUDY OF SAFETY OF THE PILL (LIPID IMPLICATIONS) (and effects of iud's)
Alvarez, Russell R. de Temple U Philadelphia, Pa
DHEW Contract(FDA) 70-64 $120,000; 06/68- $308,1277

388 ENDOCRINE AND DRUG EFFECT ON THROMBOSIS (treatment with oral contraceptives)
Ambrus, Julian L. Roswell Park Mem Inst Springville, N.Y.
DHEW Grant HE-11591 $30,022; 09/67-08/70 $87,638

389 INVESTIGATION ON THE INFLUENCE OF HORMONAL CONTRACEPTIVES ON THE

CYTOLOGY OF THE CERVIX AND ON FERTILITY AND OUTCOME OF PREGNANCY
Andolsek, Lidija U Teaching Hosp Obst & Gyn Ljubljana, Yugosl
DHEW PL-480(FDA) 02-602-3 $20,200; 07/69-06/75 $202,000

390 PATHOGENESIS OF ARTERIOSCLEROSIS (effects of oral contraceptives on blood coagulation)
Astrup, Tage James F. Mitchell Fdn Washington, D.C.
DHEW Grant HE-5020 $15,000(est); 04/62-02/73

391 HYPOPHYSEAL RESPONSE TO ESTROGENS AND PROGESTINS
Baker, Burton L. Michigan, U of Ann Arbor, Mich
DHEW Grant HD-3159 $34,542; 05/68-04/72 $134,491

392 THE STUDY ON CHANGES IN COAGULATION (in women on oral contraceptives)
Bellar, Fritz K. New York U Sch of Med New York, N.Y.
DHEW Contract(FDA) 69-16 $29,771; 05/69-05/71 $56,556

393 EFFECT OF ORAL CONTRACEPTIVES ON BODY WATER & ELECTROLYTES
Blahd, W. H. U.S. Vet Adm Ctr Los Angeles, Calif
VA Intramural ZO-27691

394 STEROIDAL DEFECTS IN HYPERTENSION (effects of oral contraceptives on plasma renin activity and aldosterone excretion)
Crane, Milton G. Loma Linda U Sch of Med Los Angeles, Calif
DHEW Grant HE-4745 $4,000(est); 10/59-05/73

395 EFFECTS OF CERTAIN CHEMICALS ON PLASMA RENIN (estrogens, progestational agents, androgens and oral contraceptives)
Crane, Milton G. Loma Linda U Sch of Med Los Angeles, Calif
DHEW Grant HE-11031 $5,392; 01/67-03/70 $75,692

396 SICKLE CELL DISEASE (including studies on patients receiving oral contraceptives)
Diggs, Lemuel W. Tennessee U Coll of Med Memphis, Tenn
DHEW Grant HE-7275 $5,000(est); 06/62-12/70

397 METABOLISM OF PLASMA LIPOPROTEINS (effect of oral contraceptives - non-estrogen and estrogen)
Eder, Howard A. Albert Einstein Coll of Med New York, N.Y.
DHEW Grant HE-2965 $10,000(est); 12/56-06/71

398 ENZYME FACTORS INFLUENCING INTRAVASCULAR FIBRINOLYSIS (of women taking oral contraceptives)
Fletcher, Anthony P. Washington U Sch of Med St. Louis, Mo
DHEW Grant HE-3745 $8,000(est); 07/58-08/74

399 RESEARCH AND DEVELOPMENT OF ORAL CONTRACEPTIVE AGENTS AND THROMBOEMBOLIC COMPLICATIONS
Fletcher, Anthony P. Washington U Sch of Med St. Louis, Mo
DHEW Contract(FDA) 70-55 $49,968; 06/70-06/72 $49,968

400 STUDY OF DIFFERENTIAL EFFECTS OF ESTROGEN AND PROGESTIN AS CONTRACEPTIVE AGENTS
Gershberg, Herbert New York U Med Ctr New York, N.Y.
DHEW Contract(FDA) 70-222 $75,930; 06/70-06/71 $75,930

401 PROGESTINS, TRIGLYCERIDE, AND LIPOPROTEIN LIPASE (progestational

compounds)
Glueck, Charles J. Cincinnati, U of Cincinnati, Ohio
DHEW Grant HD-4851 $12,277; 05/70-04/73 $33,847

402 SAFETY OF CONTRACEPTIVE STEROIDS
Goldzieher, Joseph W. Southwest Fdn Res & Educ San Antonio, Tex
AID Contract 931-17-570-521 $913,000; 06/70-06/73 $913,000

403 HORMONAL CONTROL OF ZINC METABOLISM (in subjects taking oral contraceptives)
Halsted, J. A. U.S. Vet Adm Hosp Washington, D.C.
VA Intramural ZO-28587

404 COLLABORATIVE STUDY OF ORAL CONTRACEPTION
Heyman, Albert Duke U Durham, N.C.
DHEW Contract(NICHD) NIH 69-2250 $101,636; 06/69-06/71 $240,496

405 PATHOGENESIS OF HEMORRHAGE AND THROMBOSIS (including the effects of oral contraceptives on blood clotting mechanisms)
Hoak, John C. Iowa, U of Coll of Med Iowa City, Iowa
DHEW Grant HE-9862 $2500(est); 09/65-02/71

406 CYTOGENETIC STUDY OF IMMEDIATE POST-OC ABORTION
Jacobsen, Cecil B. George Washington U Med Ctr Washington, D.C.
DHEW Contract(FDA) 70-74 $59,650; 06/70-05/71 $59,650

407 SYSTEMATIC STUDY OF METHODS TO PRODUCE PRE-ECLAMPSIA (treatment with enovid E)
Langford, Herbert G. Mississippi U Sch of Med Jackson, Miss
DHEW Grant HE-9192 $43,740; 10/64-04/71 $220,113

408 ELECTROLYTES AND HORMONES IN EDEMA AND HYPERTENSION (effect of oral contraceptives on blood pressure)
Laragh, John H. Columbia U New York, N.Y.
DHEW Grant HE-1275 $12,000(est); 12/52-11/72

409 CHROMOSOMAL BREAKS IN WOMEN USING ORAL CONTRACEPTIVES
Littlefield, Gayle U.S. Atomic Energy Comm Oak Ridge, Tenn
DHEW R. Agrmt(NICHD)-0011 $17,000; 07/68-06/70 $76,090

410 CONTRACEPTIVES AND MAMMARY CANCER
Mc Carthy, Jack D. Lovelace Fdn for Med Educ and Res Albuquerque, New Mexico
DHEW Grant CA-8801 $4,000; 05/67-06/70 $64,820

411 REGULATION OF ALDOSTERONE SECRETION (blood pressure measurements on administration of oral contraceptives)
Mulrow, Patrick J. Yale U Sch of Med New Haven, Conn
DHEW Grant HE-12758 $7,500(est); 12/69-11/74

412 ORAL CONTRACEPTIVES AND TUMORS OF THE BREAST
Paffenbarger, Ralph S. Jr California, U of Berkeley, Calif
DHEW Contract(NICHD) NIH 70-2185 $60,880;

413 QUANTITATIVE IMMUNOASSAY OF ANGIOTENSIN (in women, before and after taking oral contraceptives)
Page, Lot B. Newton-Wellesley Hosp Newton, Mass
DHEW Grant HE-11015 $4,194; 10/66-08/70 $207,458

414 CONDUCT A CONTRACEPTIVE DRUG STUDY
Pellegrin, Frederick A. Kaiser Fdn Hospitals Oakland, Calif
DHEW Contract(NICHD) PH-43-67-1346 $799,982; 06/67-12/70 $2,009,942

415 EFFECTS OF PROGESTINS ON UTERINE CONTRACTILE ACTIVITY
Reinke, David A. Michigan State U East Lansing, Mich
DHEW Grant HD-3548 $5,106; 05/68-04/70 $22,224

416 A STUDY OF THE INCIDENCE OF URINARY TRACT INFECTIONS IN FEMALES USING ORAL CONTRACEPTIVES
Rudolph, Jerome H. Rochester, U of Sch of Med Rochester, N.Y.
DHEW Contract(FDA) 69-18 ; 05/69-10/71 $77,187

417 THE STUDY OF MEIOSIS IN THE MALE DOG (effects of progestins on)
Runyan, J. W. U.S. Vet Adm Hosp Memphis, Tenn
VA Intramural ZO-27184

418 STUDIES OF THE INSULIN SECRETING PROPERTIES OF VARIOUS AGENTS (effects of contraceptive drugs)
Seltzer, Holbrooke S. U.S. Vet Adm Hosp Dallas, Texas
VA Intramural ZO-10323

419 CLINICAL AND ULTRASONIC STUDY OF VENOUS DISEASE (among women taking ovulatory suppressive hormones)
Sigel, Bernard Woman's Med Coll of Pa Philadelphia, Pa
DHEW Grant HE-11774 $37,000; 05/68-11/71 $111,436

420 EFFECTS OF ORAL CONTRACEPTIVES ON CERVICAL CYTOLOGY
Spector, Aaron J. Temple U Philadelphia, Pa
DHEW Contract(FDA) 70-97 $590,905; 02/70-01/71 $685,557

421 CARBOHYDRATE METABOLIC STUDIES IN SUBJECTS TAKING ORAL CONTRACEPTIVES AND ESTROGENS, BLOOD GLUCOSE AND PLASMA INSULIN (control group using IUDS)
Spellacy, William N. Miami, U of Sch of Med Miami, Fla
DHEW Contract(FDA) 69-32 $71,900; 06/67-06/71 $225,337

422 METABOLIC ASPECTS OF ORAL CONTRACEPTIVES (control group - mechanical contraceptives)
Stampar, Dubrauka Inst for Mother & Child Wel Zagreb, Yugoslavia
DHEW PL-480(FDA) 02-601-3 07/69-06/73 $127,000

423 CLOTTING IN PLASTIC TUBES, A LABORATORY WAY OF DETECTING SUSCEPTIBILITY TO THROMBOEMBOLISM (including effects of oral contraceptives)
Staub, Roy T. U.S. Vet Adm Hosp New Orleans, La
VA Intramural ZO-27062

424 PHYSIOLOGIC EFFECTS OF EXPERIMENTAL PULMONARY EMBOLISM (including effects of gonadal hormones and steroid contraceptives)
Stein, Myron Memorial Hosp Pawtucket, R.I.
DHEW Grant HE-13269 $28,500;

425 STEROID CONTRACEPTION AND CERVICAL DYSPLASIA
Stern, Elizabeth California, U of Los Angeles, Calif
DHEW Contract(NICHD) PH-43-67-1389 $129,315; 06/67-06/71 $389,944

426 THE STUDY OF THE RELATIONSHIP BETWEEN THROMBOEMBOLISM AND USE OF

ORAL CONTRACEPTIVES
Stolley, Paul D. /Sartwell, Philip E. J. Hopkins U Baltimore, Md
DHEW Contract(FDA) 70-23 $55,643;

427 FOLIC ACID ABSORPTION AND TRANSPORT(folate deficiency anemia and oral contraceptives)
Streiff, R. U.S. Vet Adm Hosp Gainesville, Fla
VA Intramural ZO-27855

428 ORAL CONTRACEPTIVE ANIMAL STUDY
Wazeter, Francis X. International Res & Devel Mattawan, Mich
DHEW Contract(FDA) 68-45 $40,000; 06/68-06/78 $632,000

429 RETROSPECTIVE STUDY OF ORAL CONTRACEPTIVES & CANCER RISK
White, Colin Yale U New Haven, Conn
DHEW Contract(NICHD) NIH 70-2181 $98,796; 06/70-10/71 $98,796

430 STUDY METABOLIC EFFECTS OF ORAL CONTRACEPTIVES
Wynn, Victor London, U of London, England
DHEW Contract(NICHD) PH-43-67-1344 $42,720; 06/67-06/71 $171,620

431 INVESTIGATION OF THE INFLUENCE OF HORMONAL CONTRACEPTIVES ON THE CYTOLOGY OF THE CERVIX AND ON OUTCOME OF PREGNANCY
Zarkovic, Grujica Inst of Hygiene & Social Med Sarajevo, Yugosl
DHEW PL-480(FDA) 02-603-3 $10,500; 01/70-12/76 $178,000

432 UROKINASE PULMONARY EMBOLISM TRIAL (including studies on the effect of oral contraceptives on thromboembolism)
/ Various Investigators
DHEW Contract(NHLI) $25,000(est); 06/68- /72

433 HORMONAL CONTRACEPTIVE STUDY
/ Fam Plan Council Pakistan
AID Other ; 07/69- $18,900

434 EFFECT OF ORAL CONTRACEPTION ON WOMEN WITH LIVERFLUKE DISEASE
/ Provincial Hosp Thailand
AID Grant ; /68- /70 $1,750

Intrauterine devices

435 EVALUATION ON FAMILY PLANNING - FAMILY PLANNING EVALUATION CENTER (evaluation of contraceptive devices and techniques)
Bernard, Roger Pathfinder Fund Chestnut Hill, Mass
AID Contract 931-17-580-478 ; 06/67-06/71 $1,483,000

436 PHYSIOLOGICAL REACTIONS TO IUDS IN ANIMALS
Hawk, Harold W. Agricultural Res Ctr Beltsville, Md
DHEW R. Agremt(NICHD)-0001 $82,000; 01/65-06/70 $468,350

437 DEVELOPMENT OF IMPROVED INTRAUTERINE CONTRACEPTIVE DEVICES
Wheeler, Robert G. Pacific Northwest Lab Richland, Wash
AID Contract 931-17-570-527 $150,000; 07/70-06/73 $645,000

438 CORRELATES OF INTRAUTERINE CONTRACEPTIVE DEVICE
Winkelstein, Warren Jr California, U of Berkeley, Calif

DHEW Contract(NICHD) PH-43-67-1391 $202,318; 06/67-08/71 $703,155

439 QUANTITATIVE EFFECTS OF INTRAUTERINE CONTRACEPTIVE DEVICES (IUDs) ON DECIDUOMA DEVELOPMENT IN RATS
Wrenn, Randall T. Agricultural Res Ctr Beltsville, Md
USDA Intramural(Cris-19105) $5,000; 01/69-12/71 $10,000

440 OVERCOMING THE CONTRACEPTIVE EFFECTS OF INTRAUTERINE DEVICES
Wrenn, Randall T. Agricultural Res Ctr Beltsville, Md
USDA Intramural(Cris-19105) $15,000; 06/69-06/72 $40,000

Other

441 CONVENTIONAL CONTRACEPTIVE STUDY
/ Pam Plan Council Pakistan
AID Other $786,000; /67- /69

STERILIZATION

442 RESEARCH ON REVERSIBLE STERILIZATION
Hulka, J. F. North Carolina, U of Chapel Hill, N.C.
AID Grant 931-17-580-498 ; 06/69-06/71 $79,000

ANIMAL BEHAVIOR AND ECOLOGY

Animal Reproductive Behavior

443 BIO-PSYCHOLOGICAL ASPECTS OF SEX, CYCLICITY & AROUSAL (copulatory behavior of male rat)
Adler, Norman T. Pennsylvania, U of Philadelphia, Pa
DHEW Grant HD-4522 $28,867; 09/69-08/72 $70,649

444 EARLY EXPERIENCE AND DEVELOPMENT OF BEHAVIOR
Arnold, William J. Nebraska, U of Lincoln, Nebraska
DHEW Grant MH-17377 $35,161; 09/69-08/71 $60,530

445 BEHAVIORAL EFFECTS OF SELECTED DENERVATION
Aronson, Lester R. American Museum of Nat Hist New York, N.Y.
DHEW Grant HD-0348 $28,406; 09/61-08/74 $283,261

446 ENDOCRINE & NEURAL BASES OF BEHAVIOR
Barfield, Ronald J. Rutgers, The State U New Brunswick, N.J.
DHEW Grant HD-4484 $16,330; 11/69-10/72 $41,930

447 NEUROPHYSIOLOGICAL CORRELATES OF SEXUAL BEHAVIOR

Caggiula, Anthony R. Pittsburgh, U of Pittsburgh, Pa
DHEW Grant MH-16581 $27,427; 04/69-03/72 $92,296

448 ENDOCRINE FACTORS IN THE SOCIAL BEHAVIOR OF ANIMALS
Erickson, Carl J. Duke U Durham, N.C.
DHEW Grant HD-4482 $25,019; 11/69-10/72 $64,726

449 HORMONAL & NEURAL CORRELATES OF REPRODUCTIVE BEHAVIOR
Gerall, Arnold A. Tulane U New Orleans, La
DHEW Grant HD-0867 $82,326; 01/62-05/73 $564,024

450 ENDOCRINOLOGICAL DETERMINANTS OF BEHAVIOR
Goy, Robert W. Med Res Fdn of Oregon Portland, Oregon
DHEW Grant MH-8634 $111,436; 09/63-09/72 $938,601

451 NEUROLOGICAL MECHANISMS IN REPRODUCTIVE BEHAVIOR
Larsson, Knut Goteborg, U of Goteborg, Sweden
DHEW Grant HD-0344 $25,063; 11/61-10/70 $159,916

452 REPRODUCTIVE BEHAVIOR - FACILITATION AND INHIBITION (NEURAL regulation, estrogen receptors in the hypothalamus)
Lisk, Robert D. Princeton U Princeton, N.J.
DHEW Grant HD-2615 $37,439; 01/67-12/71 $161,142

453 ENDOCRINE CONTROL OF SEXUAL BEHAVIOR
Loher, Werner J. California, U of Berkeley, Calif
DHEW Grant HD-3619 $14,340; 06/68-03/72 $56,286

454 EXPERIENTIAL FACTORS IN PREGNANCY-BLOCK (neuro-endocrine phenomenon involving mating experience which predisposes female to pregnancy block)
Lott, Dale E. California, U of Davis, Calif
DHEW Grant HD-3209 $16,001; 11/68-10/71 $42,924

455 SEX BEHAVIOR AND CENTRAL NERVOUS ACTION OF HORMONES
Meyerson, Bengt Uppsala, U of Uppsala, Sweden
DHEW Grant HD-4108 $30,300; 06/69-05/72 $88,700

456 THE EFFECT OF PROLONGED SOCIAL EXPERIENCE ON THE REPRODUCTIVE BEHAVIOR OF LABORATORY-REARED MALE RHESUS MONKEYS
Missakian, Elizabeth A. Lab of Perinatal Physiology San Juan, P.R.
DHEW Intramural NDS(I) 68-LPP 1570

457 THE NEUROANATOMICAL BASIS OF REPRODUCTIVE ACTIVITY IN MALE RHESUS MONKEYS
Myers, Ronald E. Lab of Perinatal Physiology San Juan, P.R.
DHEW Intramural NDS(I) 68-LPP 1569

458 BEHAVIORAL AND ENDOCRINE COORDINATION IN MAMMALS
Vandenbergh, John G. North Carolina Fdn Mental Hlth Raleigh, N.C.
DHEW Grant MH-16870 $10,210; 05/69-04/72 $24,000

459 EFFECTS OF PREPUBERAL STRESS ON ADULT SEXUAL BEHAVIOR
Ward, Ingeborg L. Villanova U Villanova, Pa
DHEW Grant HD-4688 $22,793; 01/70-12/71 $40,611

460 HORMONAL CONTROL OF BEHAVIOR
Whalen, Richard E. California, U of Irvine, Calif
DHEW Grant HD-0893 $30,842; 05/63-05/73 $257,920

461 BEHAVIOR, HORMONES AND BRAIN FUNCTION
Zucker, Irving California, U of Berkeley, Calif
DHEW Grant HD-2982 $29,365; 05/67-04/75 $207,025

ANIMAL POPULATION:
EFFECTS OF POPULATION DENSITY

462 HORMONAL DYNAMICS AND ANIMAL NUMBERS
Adams, Lowell California, U of San Francisco Med Ctr S.F., Calif
DHEW Grant GM-11993 $48,077; 06/67-05/72 $244,116

463 SELECTION IN NATURAL AND EXPERIMENTAL POPULATIONS
Anderson, Wyatt W. Yale U New Haven, Conn
DHEW Grant HD-5055 $32,001; 06/70-05/73 $80,621

464 EVOLUTION OF VERTEBRATE SOCIAL SYSTEMS
Emlen, John T. Wisconsin, U of Madison, Wisconsin
NSF Grant GB-15304 $22,500(est); 09/69-09/72 $45,000

465 POPULATION STUDIES: POPULATION GROWTH IN MICE, AND OPTIMUM POPULATION GROWTH IN HUMANS
Rosenthal, David National Inst of Mental Hlth Bethesda, Md
DHEW Intramural(NIMH)

466 A STUDY OF ENERGY FLOW AND MINERAL CYCLING IN THE OLD FIELD MOUSE (peromyscus polionotus)
Smith, Michael H. Georgia, U of Athens, Ga
AEC Grant AT(38-1)310 $12,000; 06/70-05/71 $12,000

467 SOCIAL STRESS IN FREE-LIVING RODENTS
Stokes, Allen W. Utah State U Logan, Utah
DHEW Grant HD-2640 $18,865; 12/66-12/72 $72,922

468 POPULATION CONTROL, BEHAVIOR & REPRODUCTIVE INHIBITION (of small animals)
Terman, C. Richard William and Mary, Coll of Williamsburg, Va
DHEW Grant HD-4787 $21,153; 01/70-12/72 $72,891

SOCIAL SCIENCES

DEMOGRAPHY AND SOCIOLOGY

MULTIPLE OR UNSPECIFIED

469 THE DEVELOPMENT OF MEASURES OF UNWANTED CHILDBEARING
Israel, Robert A. OSDHEW Nat Ctr for Hlth Statistics Wash, D.C.

DHEW R. Agrent(NICHD)-0010 $11,486; 05/68-02/70 $82,906

470 EVOLUTIONARY DYNAMICS OF HUMAN POPULATIONS
Johnston, Francis E. Texas, U of Austin, Texas
NSF Grant GS-3038 $5,600; 06/70-12/70 $5,600

471 THE DEVELOPMENT OF MODERNISM AND DEMOGRAPHIC CHANGE
Schnaiberg, Allan Northwestern U Evanston, Ill
DHEW Grant HD-4997 $15,916; 06/70-05/72 $19,191

POPULATION GROWTH OR CHANGE

472 POPULATION RESEARCH BY COMPUTER SIMULATION
Agarwala, S. N. Demographic Res Training Ctr Chembur, India
DHEW PL-480(NCHS) 01-651-2 $8,944(est); 05/65-06/71 $53,655

473 SOCIO-ECONOMIC EFFECTS OF DIFFERENT RATES OF POPULATION GROWTH
Ayala, Fernando Jose CEPADES Asuncion, Paraguay
AID Grant 526-11-580-085 $9,000; 06/70-12/70 $9,000

474 COMMUNITY ADJUSTMENT TO SOCIAL CHANGE IN THE NORTH CENTRAL REGION
Beegle, J. A. Michigan State U East Lansing, Mich
USDA Grant MICL-00017 $22,459; 08/48- $189,363

475 DETERMINANTS OF POPULATION GROWTH STUDY
Eason, Warren W. Ohio State U Columbus, Ohio
DHEW Contract(NICHD) NIH 70-2191 $52,700; 06/70-06/71 $52,700

476 SOCIO-ECONOMIC STUDY (effect population growth)
Ibarra, Enrique Inst Desarrollo Integral Armonico
Asuncion, Paraguay
AID Grant 526-11-580-085 $53,000; 04/70-04/71 $53,000

477 CURRENT POPULATION TRENDS AND CHANGES IN MONTANA
Kraenzel, C. F. Montana State U Bozeman, Montana
USDA Grant MONB-00451 ; 10/60-06/71 $19,344

478 MEASUREMENT METHODS FOR POPULATION CHANGE
Linder, Forrest E. North Carolina, U of Chapel Hill, N.C.
DHEW Grant HD-3441 $148,137; 05/68-04/71 $423,369

479 DETERMINANTS AND CONSEQUENCES OF POPULATION TRENDS
Mayo, Selz C. North Carolina State U Raleigh, N.C.
USDA Grant NC-3266 $14,430; 07/68-06/72 $27,730

480 DEMOGRAPHIC ANALYSIS OF ETHNOGRAPHIC DATA FOR THE USSR (detailed analysis of mortality and fertility rates)
Mazur, D. Peter Western Washington State Coll Bellingham, Wash
NSF Grant GS-3113 $12,850(est); 06/70-06/72 $25,700

481 NATIONAL LONGITUDINAL SURVEY OF DEMOGRAPHIC, ECONOMIC AND SOCIAL CHANGES
Prachuabmoh, Visid Inst of Population Studies Thailand
AID Other 493-11-580-209 $14,000; /69- /72 $47,000

482 POPULATION DYNAMICS AND IMPROVEMENT OF VITAL REGISTRATION

Ranganathan, K. U. Inst Rural Hlth Fam Plan Gandhigram, India
DHEW PL-480(NCHS) 01-650-2 $38,970(est); 07/69-06/75 $194,852

483 EVALUATION OF SAMPLE REGISTRATION PROBLEMS AT DISTRICT LEVEL
Sekhar, A. Chandra Off of Registrar General New Delhi, India
DHEW PL-480(NCHS) 01-655-2 $14,120(est); 05/66-05/72 $84,698

484 NEW ESTIMATION TECHNIQUES FOR DEMOGRAPHIC ANALYSIS
Sheps, Mindel C. North Carolina, U of Chapel Hill, N.C.
DHEW Contract(NICHD) NIH 70-2187 $75,579; 06/70-06/71 $75,579

485 MICROSIMULATION OF POPULATION CHANGE
Sirken, Monroe G. /Horwitz, Daniel HSMHA Rockville, Md
DHEW Contract/Intramural(NCHS) $50,000; 07/66- $350,000

486 DESIGN OF MULTIPLICITY SURVEYS TO ESTIMATE COMPONENTS OF POPULATION CHANGE
Sirken, Monroe G. HSMHA Rockville, Md
DHEW Contract/Intramural(NCHS) $30,000; 02/68-

487 ANALYSIS OF POPULATION TRENDS AND THEIR IMPACT
Skrabanek, R. L. Texas A & M U College Station, Texas
USDA Grant TEX-01268 $10,000; 09/60-06/71 $102,578

488 CHANGES IN RURAL SOCIAL PATTERNS RELATED TO SUBURBANIZATION
Stockwell, E. G. Connecticut, U of Storrs, Conn
USDA Grant CONS-0246 $13,348; 06/56- $161,450

489 CONSEQUENCES OF CHANGING SOCIAL ORGANIZATION IN THE NORTHEAST
Thomas, D. W. Pennsylvania State U University Park, Pa
USDA Grant PEN-01506 $2,307; 06/64- $34,365

490 POPULATION GROWTH SURVEY(PGS)
/ Fam Plan Council Pakistan
AID Other /68- $196,400

491 POPULATION PROJECTIONS PROJECT
/ Inst of Statistical Res & Training, Dacca U Dacca, E. Pakistan
AID Other /67- $10,700

POPULATION CHARACTERISTICS AND DISTRIBUTION

492 COMPOSITION AND CHANGES IN FARM AND RURAL POPULATION
Beale, Calvin L. U.S. Dept of Agriculture Washington, D.C.
USDA Intramural ED1-1-54-00 $16,000; /44-

493 AN ENVIRONMENTAL APPROACH TO HUMAN STRESS (interaction of density and overcrowding with other physical and social variables)
Carnoa, Daniel M. Pennsylvania State U University Park, Pa
DHEW Grant(NCHSRD) HS-0206 $10,000; 06/69-03/71 $20,430

494 COMPARATIVE INTERNATIONAL STUDY OF LABOR FORCE GROWTH AND STRUCTURE
Durand, John D. /Miller, Ann R. Pennsylvania, U of Phila, Pa
NSF Grant GS-2787 $57,600; 09/69-09/70 $57,600

495 SOCIOECONOMIC VARIATIONS IN MARRIAGE & FERTILITY-1967

Glick, Paul C. U.S. Dept of Commerce-Bur of Census Wash, D.C.
DHEW R. Agrem(NICHD)-0012 $23,000; 02/69-06/70 $41,000

496 URBAN GROWTH PATTERN RESEARCH
Lee, E. S. /Nelson, K.P. Oak Ridge Nat Laboratory Oak Ridge, Tenn
HUD Contract IAA-H-35-70 $195,000; 05/70-06/71 $195,000

497 CENSUS / NATIONAL BUREAU OF ECONOMIC RESEARCH CONSUMER ANTICIPATION PROJECT (a research element of the primary project which is the Survey of Consumer Buying Expectations) (including family size and short term birth expectations)
Mc Neil, J. M. / Juster, F. Thomas Suitland, MD
Commerce/NBER Intramural $20,000; 05/68-06/72 $145,000

498 MIDDLE EAST SURVEY OF FAMILY PLANNING POLICIES AND DEMOGRAPHIC PATTERNS
Omran, Abdel North Carolina, U of Chapel Hill, N.C.
AID Grant 298-15-995-017 ; 07/69-07/71 $86,000

499 HUMAN TERRITORIALITY IN HOME AND NEIGHBORHOOD
Scheflen, Albert E. Jewish Family Service New York, N.Y.
DHEW Grant MH-18162 $22,450; 09/69-08/73 $86,666

500 DEMOGRAPHIC STUDIES IN RURAL EAST PAKISTAN
/ Inst of Statistical Research & Training, Dacca U East Pakistan
AID Other ; /70- /74

FERTILITY

Multiple or unspecified

501 THE DEMOGRAPHIC TRANSITION IN A CHANGING SOCIETY
Breznik, Dusan Demographic Res Ctr, Inst Soc Sciences Belgrade, Yugoslavia
DHEW PL-480(NCHS) 02-650-2 $75,830(est); 02/69-01/73 $303,321

502 AN ANALYSIS OF THE DECLINE OF FERTILITY IN EUROPE (by province from the time of high and relatively constant fertility to the present)
Coale, Ansley J. Princeton U Princeton, N.J.
DHEW Contract(NICHD) NIH 70-2077 $68,670; 03/70-08/70 $68,670

503 A STUDY OF VARIATIONS IN COGNITIVE STYLES
Cogswell, Betty E. North Carolina, U of Chapel Hill, N.C.
DHEW Contract(NICHD) NIH 69-2167 $26,765; 06/69-06/71 $52,545

504 FERTILITY AND FAMILY PLANNING IN TAIWAN
Freedman, Ronald Michigan, U of Ann Arbor, Mich
DHEW Grant HD-3002 $105,204; 09/67-08/71 $381,017

505 SURVEY METHODOLOGY FOR MEASUREMENT OF FERTILITY
George, A. Dept of Statistics, Kerala, U of Trivandrum, India
DHEW PL-480(NCHS) 01-652-2 $9,651(est); 07/65-09/70 $48,256

506 URBANIZATION, MIGRATION AND FERTILITY IN THAILAND
Goldstein, Sidney Brown U Providence, R.I.

DHEW Contract(NICHD) NIH 70-2190 $28,647; 06/70-05/71 $28,647

507 POPULATION SURVEY IN ETHNIC GROUPS
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md
DHEW R. Agremt(NICHD)-0014 $25,000; 04/70-04/71 $25,000

508 WOMEN BY NUMBER OF OWN CHILDREN UNDER 5 YEARS OLD: MARCH 1969 (Current Population Reports, Series P-20, No. 205)
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md
DHEW/Commerce R. Agremt/Intramural 34-0600 $6,000; 03/69-07/70 $10,00

509 FERTILITY OF THE POPULATION: January 1969 (Current Population Reports, Series P-20, No. 203)
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md
DHEW/Commerce R. Agremt/Intramural $10,000; 01/69-07/70 $18,000

510 EXPECTED FUTURE BIRTHS AND OTHER DATA ON MARRIAGE, FERTILITY AND CHILDSPACING: February-March 1967 (Current Population Reports, Series P-20)
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md
DHEW/OEO/Commerce R. Agremt/Intramural $25,000; 02/67-11/70 $60,000

511 CULTURAL INFLUENCES ON HUMAN FERTILITY
Gulick, John North Carolina, U of Chapel Hill, N.C.
NSF Grant GS-3108 $36,100; 07/70-09/71 $36,100

512 DEMOGRAPHIC TRANSITION WITHOUT URBANIZATION
Hackenberg, Robert A. Colorado, U of Boulder, Colo
DHEW Contract(NICHD) NIH 69-2224 $21,139; 06/69-06/71 $115,314

513 DETERMINANTS OF FAMILY PLANNING ATTITUDES AND PRACTICES
Heer, David M. Harvard U Sch of Public Hlth Cambridge, Mass
AID Contract 931-17-570-497 ; 06/69-09/72 $106,000

514 SOCIO-ECONOMIC FACTORS IN THE REDUCTION OF NATALITY
Kirk, Dudley Stanford U Stanford, Calif
DHEW Contract(NICHD) NIH 70-2189 $60,902; 06/70-06/71 $60,902

515 ANALYSIS OF SENSITIVE MEASURES OF FERTILITY CHANGE
Raina, B. L. Central Fam Plan Inst New Delhi, India
DHEW PL-480(NCHS) 01-660-2 $73,360; 07/69-06/70 $73,360

516 ANTHROPOLOGICAL STUDY OF SOCIAL EFFECTS OF INTRODUCING MODERN METHODS OF POPULATION CONTROL
Reddy, Subba N. Andhra U Waltair, India
DHEW PL-480(Fogarty) 01-076-1 $15,528; 07/70-07/72 $34,190

517 FIELD STUDY OF POPULATION PRESSURE IN INDIA
Revelle, Roger Harvard U Boston, Mass
DHEW Grant HD-3460 $100,231; 01/70-12/71 $190,421

518 DETERMINANTS OF HUMAN FERTILITY PATTERNS
Schultz, Paul T. Jr Rand Corp Santa Monica, Calif
AID Contract 931-17-570-824 ; 06/68-09/70 $143,000

519 FERTILITY DETERMINANTS: A THEORETICAL INQUIRY FOR THE DESIGN AND EVALUATION OF POPULATION POLICY
Schultz, Paul T. Jr Rand Corp Santa Monica, Calif
AID Contract 931-17-570-517 ; 01/70-01/73 $327,000

520 ANALYTICAL STUDY OF FERTILITY INDICATORS
Srinivasan, K. Inst Rural Hlth & Fam Plan Gandhigram, India
DHEW PL-480(NCHS) 01-653 $8,000(est); 04/66-10/69 $24,038

521 COLLECTION OF DATA ON FAMILY PLANNING ACTIVITIES IN THE ATLANTA AREA
Tyler, Carl W. Jr / Hatcher, Robert A. Emory U Atlanta, Ga
DHEW Contract(CDC) HSM-21-69-507 $9,188; 06/70-06/71 $9,188

522 PREGNANCY PREVALENCE, WASTAGE, NAD INTERNAL STUDY
/ East Pakistan Res & Evaluation Ctr Dacca, East Pakistan
AID Other ; /68- /71 $31,000

523 METROPOLITAN VALPARAISO FERTILITY SURVEY
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile
AID Other 513-11-570-237 ; 10/68-03/70 $14,500

524 NATIONAL ABORTION AND KAP SURVEY
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile
AID Other 513-11-570-237 ; 09/69-09/71 $46,800

525 INDIGENOUS FERTILITY AND ABORTION
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chilee
AID Other 513-11-570-237 ; 01/69-01/70 $12,000

526 EVALUATION OF NORTH SANTIAGO TEACHER TRAINING IN SEX EDUCATION
/ Nat Hlth Serv Santiago, Chile
AID Other 513-11-580-236 ; 10/69-03/70 $2,200

527 CONCEPCION STUDENTS', PARENTS', TEACHERS' ATTITUDES REGARDING SEX EDUCATION
/ Ctr Teacher Training & Res, Ministry of Educ Santiago, Chile
AID Other 513-11-580-236 ; 07/69-12/69 $2,500

528 SURVEY OF FERTILITY AND CONTRACEPTIVE PRACTICES
Westoff, Charles F. Princeton U Princeton, N.J.
DHEW Contract(NICHD) PH-43-65-1048 $212,260; 06/65-08/70 $697,029

KAP studies and contraceptive practices

529 KOREAN ATTITUDES AND BIRTH CONTROL BEHAVIOR
Chung, Bom Mo Korean Inst Res in the Behavior Sci Seoul, Korea
AID Other 489-649-3-00052 $230,000; 06/70-10/71 $230,000

530 SOME ATTITUDE TRENDS TOWARD POPULATION CONTROL IN WESTERN EUROPE
Crespi, Leo P. U.S. Information Agency Washington, D.C.
USIA Intramural/Contract

531 URBAN ATTITUDE TRENDS ON POPULATION ISSUES IN THAILAND AND THE PHILIPPINES
Crespi, Leo P. U.S. Information Agency Washington, D.C.
USIA Intramural/Contract

532 STUDY OF PAPAL ENCYCLICAL
Duarte, A. B. Acha Paraguayan Ctr Population Studies
Asuncion, Paraguay

AID Grant 526-11-580-085 $1,500; 06/70-06/71 $1,500

533 RURAL HEALTH SERVICES & FAMILY PLANNING UTILIZATION IN INDIA
(a study of intrauterine devices in A Rural Health Center)
Taylor, Carl E. Christian Med Coll Punjab, India
DHEW PL-480(NCHSRD) 01-701-2 ; 04/65-06/71 $416,188

534 POPULATION/FAMILY PLANNING (KAP SURVEY)
Uyen, Tu Res Comm on Fam Plan Saigon, South Viet Nam
AID Other ; 06/68-12/70

535 BRAC FILIPINO FAMILY SURVEY
/ Inst of Philippine Cult, Ateneo de Manila U Manila, Philippines
AID Other ; 10/69-02/70

536 DEMOGRAPHIC SURVEY AND KAP STUDY (APGHANISTAN)
/ State U of NY at Buffalo, Albany, N.Y.
AID Other 306-11-570-110 $49,000; /69- $84,0000

537 PARENTS', TEACHERS' AND 7th AND 8th GRADE STUDENTS' ATTITUDES TOWARD SEX AND FAMILY LIFE
/ Group of Private Sociologists Santiago, Chile
AID Other 513-11-580-236 ; 11/69-10/70 $31,800

538 ATTITUDES TOWARD FAMILY LIFE
/ Dept of Family Educ, Catholic U Santiago, Chile
AID Other 513-11-580-236 ; 10/69-03/70

539 ATTITUDES TOWARD DATING AND SEX AMONG ADOLESCENTS
/ Ctr Med-Social Anthropol, Chile, U of Med Sch Santiago, Chile
AID Other 513-11-580-236 ; 10/69-03/70 $2,000

540 FUTURE MOTHERS' KNOWLEDGE OF HUMAN SEXUALITY
/ Catholic U, Sch of Med Santiago, Chile
AID Other 513-11-580-236 ; 10/69-03/70 $2,600

541 PRIMARY SCHOOL TEACHERS' KNOWLEDGE AND ATTITUDES CONCERNING SEX EDUCATION
/ Ctr Teacher Training & Res, Ministry of Educ Santiago, Chile
AID Other 513-11-580-236 ; 07/69-12/69 $2,400

Out-of-wedlock births

542 ILLEGITIMACY - DEMOGRAPHIC AND SOCIOLOGIC STUDIES
Davis, Kingsley California, U of Berekeley, Calif
DHEW Contract(NICHD) NIH 70-2196 $86,969; 06/70-06/71 $86,969

543 THE PREVENTION OF ADOLESCENT ILLEGITIMACY
Furstenberg, Frank F. Jr Pennsylvania, U of Philadelphia, Pa
DHEW Grant MH-17643 ; 06/69-09/70 $6,183

544 CONTEXT AND CAUSES OF ILLEGITIMATE BIRTHS
Gibbs, James O. Emory U Atlanta, Ga
DHEW Grant HD-4603 $12,686; 11/69-10/71 $18,708

545 RESOLUTIONS BY TEENAGE MOTHERS OF A STATUS DILEMA

Wiltse, Kermit T. California, U of Berkeley, California
DHEW Grant MH-15471 $56,364; 12/68-11/71 $124,734

Induced abortion

546 COMPONENTS OF REPEATED ABORTION-SEEKING BEHAVIOR
David, Henry P. Amer Inst Res Behav Sci Silver Spring, Md
DHEW Contract(NICHD) NIH 70-2193 $15,325; 06/70-06/71 $15,325

547 NATIONAL ABORTION STUDY
Morales, Julio Manuel Inst for Study of Reprod Asuncion, Paraguay
AID Grant 526-11-580-085 $20,000; 06/70-04/71

548 THE EPIDEMIOLOGY OF OUTCOME OF PREGNANCY IN DIVERSE CULTURES IN SELECTED COUNTRIES (including incidence of induced abortions)
Rider, R. V. /Harper, P. A. / Chow, B. J Hopkins U Baltimore, Md
AID Contract 931-17-570-496 ; 05/69-05/72 $194,000

549 A NATIONAL ABORTION SURVEY
Tietze, Christopher Population Council, The New York, N.Y.
DHEW Contract(NICHD) NIH 70-2293 $78,954; 06/70-06/71 $78,954

550 SURVEILLANCE DATA FOR THE EPIDEMIOLOGY OF REPRODUCTIVE WASTAGE IN EARLY PREGNANCY
Tyler, Carl W. Jr / Swartz, Donald P. Columbia U New York, N.Y.
DHEW Contract(CDC) HSM-21-70-517 $10,625; 06/70-06/71

551 SURVEILLANCE OF DATA FOR THE EPIDEMIOLOGY OF REPRODUCTIVE WASTAGE IN EARLY PREGNANCY
Tyler, Carl W. Jr / Mishell, Daniel R. Jr Southern California, U of Los Angeles, California
DHEW Contract(CDC) HSM-21-70-518 $13,685; 06/70-06/71

552 EPIDEMIOLOGY OF REPRODUCTIVE LOSS IN EARLY PREGNANCY
Tyler, Carl W. Jr / Freeman, Malcolm G. Emory U of Atlanta, Ga
DHEW Contract(CDC) HSM-21-70-502 $40,896; 09/70-09/71

Sterilization

553 A STUDY TO EVALUATE THE EFFECTIVENESS OF THE TATA GROUP OF COMPANIES (private sector) INCENTIVE PROGRAM FOR STERILIZATION
/ Res & Marketing Services Bombay, India
AID Other ; 11/69-04/70

MORTALITY

554 ANALYSIS OF COHORT MORTALITY
Moriyama, Iwao M. Nat Ctr Hlth Statistics Rockville, Md
DHEW Intramural $5,000; /68- /71

555 LENGTH OF LIFE AND CAUSES OF DEATH IN A HETEROGENEOUS POPULATION: Israel 1948-1966
Peritz, Eric Central Bureau of Statistics Jerusalem, Israel
DHEW PL-480(NCHS) 06-652-2 $23,975(est) 04/68-04/71 $71,926

556 FACTORS IN INFANT MORTALITY IN YUGOSLAVIA
Vukmanovic, Cedomir Federal Inst of Public Hlth Belgrade, Yugoslavia
DHEW PL-480(NCHS) 02-651-2 $14,692(est) 05/64-06/71 $102,845

557 CHILEAN MORTALITY
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile
AID Other 513-11-570-237 ; 09/68-09/70 $12,000

MIGRATION

558 ANALYSIS OF MIGRATION FROM EASTERN KENTUCKY
Anschel, Kurt R. Kentucky, U of Lexington, Ky
DHEW Contract(NICHD) NIH 70-2198 $71,600; 06/70-12/71 $71,600

559 MIGRATION OF THE FARM AND RURAL POPULATION
Beale, Calvin L. Economic Res Serv Washington, D.C.
USDA Intramural ED1-2-54-00 $25,000;

560 RURAL-URBAN MIGRATION AND ITS POVERTY DIMENSIONS
Bowles, Gladys K. Economic Res Serv Washington, D.C.
USDA Contract EDI-2-11-01-X1 06/68-12/71 $192,000

561 CHANGES IN THE SOCIOECONOMIC STATUS OF FAMILIES IN LOW-INCOME HIGH-MIGRATION RURAL AREAS (including changes in the employment of women)
Charlton, J. L. Arkansas, U of Fayetteville, Arkansas
USDA Grant ARK-00693 $21,589; 03/68-02/73 $57,003

562 PROBLEMS OF POPULATION DECLINE IN RURAL AREAS
Gardner, B. L. N Carolina State U Raleigh, N.C.
USDA Grant NC-03231 $6,733; 04/69-04/74 $29,495

563 MIGRATION PATTERNS OF THE TENNESSEE POPULATION
Leuthold, F. O. Tennessee, U of Knoxville, Tenn
USDA Grant TEN-00274 $14,170; 03/68-07/72 $52,982

564 MOBILITY OF THE POPULATION OF THE UNITED STATES
Long, Larry U.S. Bureau of the Census Suitland, Md
COMMERCE Intramural $5,000; 07/69-06/70 $10,000

565 THE RELATION OF POPULATION TO SOCIAL CHANGE IN THE NORTH CENTRAL REGION, 1960-70
Marshall, D. G. Wisconsin, U of Madison, Wis
USDA Grant WIS-00713 $11,054; 11/63-06/73 $108,790

566 DEVELOPING A FORECASTING MODEL OF POPULATION MOBILITY
Morrison, Peter A. Pennsylvania, U of Philadelphia, Pa
DHEW Grant RD-17175 ; 04/69-03/71 $4,673

567 THE ABSORPTION OF MIGRANTS
Shannon, Lyle W. Iowa, U of Iowa City, Iowa
DHEW Grant MH-18196 $7,200;

568 CONSEQUENCES OF CHANGING SOCIAL ORGANIZATION IN THE NORTHEAST
(relate migration, land and resource use to control structure)
Sizer, L. M. West Virginia U Morgantown, West Virginia
USDA Grant WVA-00186 $10,700; 09/64-06/73 $73,993

569 INTRAMETROPOLITAN RESIDENTIAL MOBILITY
Van Arsdol, Maurice D. Southern California, U of Los Angeles, Cal
NSF Grant GS-2847 $23,500; 01/70-01/72 $47,000

570 IN-MIGRATION AND URBAN GROWTH
Weller, Robert H. Brown U Providence, Rhode Island
NSF Grant GS-3078 $7,250(est); 06/70-06/72 $14,500

571 FAMILY STRUCTURE AS RELATED TO MIGRATION, OCCUPATION, AND SOCIAL PARTICIPATION
Wilkening, E. A. Wisconsin, U of Madison, Wisconsin
USDA Grant WIS-01550 $7,512; 07/68-06/71 $45,692

MARRIAGE, DIVORCE AND FAMILY

572 FAMILY AND FERTILITY AMONG MEXICAN-AMERICANS
Bean, Frank D. Texas, U of Austin, Texas
DHEW Grant HD-4262 $26,712; 06/69-05/71 $61,625

573 RELATIONSHIPS BETWEEN CHILDBEARING MOTIVES AND MOTHERING
Bernard, Viola W. Columbia U New York, N.Y.
DHEW Grant MH-17113 ; 04/69-03/71 $6,440

574 PSYCHOSOCIAL DYNAMICS - CHILDBEARING AND FAMILY PLANNING
Bernard, Viola W. Columbia U New York, N.Y.
DHEW Grant MH-16494 ; 01/69-08/72 $282,813

575 SOCIAL DETERMINANTS OF LOW NATALITY IN INDUSTRIALIZED COUNTRIES
(cultural determinants of family size)
Day, Lincoln H. Yale U New Haven, Conn
NSF Grant GS-2692 $20,600; 09/69-09/70 $28,000

576 FEMALE MARITAL, PARENTAL, AND CAREER ROLE CONCEPTIONS AMONG FARM AND NON-FARM WOMEN
Featherman, D. L. Wisconsin, U of Madison, Wisconsin
USDA Grant WIS-01697 $4,148; 07/70-

577 FACTORS AFFECTING AGE AT MARRIAGE IN RURAL NEBRASKA
Gingles, R. Nebraska, U of Lincoln, Nebraska
USDA Grant NEB-93-006 ; 07/67-12/69 $2,088

578 MARRIAGE, FERTILITY, AND CHILDSPACING: JUNE 1969 (Current Population Reports, Series p-20, No. 194, Issued August 6,1969)
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md
COMMERCE Intramural 34-0600 $1,950; 06/65-08/69 $90,000

579 FACTORS AFFECTING PATTERNS OF LIVING IN DISADVANTAGED FAMILIES (including family structure)
Kuvlesky, W. P. Texas A & M U College Station, Texas
USDA Grant TEX-02906 $9,000; 08/68-06/72 $50,706

580 CEBU FAMILY HEALTH PROJECT (factors influencing size of Filipino families)
Liu, William Notre Dame, U of Notre Dame, Ind
AID Contract 492-220-3-80008 ; 09/67-07/70 $179,045

581 FACTORS AFFECTING PATTERNS OF LIVING IN DISADVANTAGED FAMILIES (including size of family)
Marshall, D. G. Wisconsin, U of Madison, Wisconsin
USDA Grant WIS-01612 $5,256; 07/69-06/71 $10,512

582 RELATIONSHIP BETWEEN PARENTAL SATISFACTION AND CHILDREN'S ROLE BEHAVIOR
Maxwell, J. W. Virginia Poly Inst Blacksburg, Va
USDA Grant VA-0616096 ; 02/68- $8,039

583 MARCH SUPPLEMENT OF THE CURRENT POPULATION SURVEY
Norton, Arthur J. U.S. Bureau of the Census Suitland, Md
COMMERCE Intramural 340600 $30,800; 03/69-05/70 $50,000

584 CORRELATION OF FAMILY SIZE AND EXPECTED FAMILY SIZE
Buttall, Ronald L. Boston Coll Chestnut Hill, Mass
DHEW Contract(NICHD) NIH 70-2195 $47,189;

585 AGE AT MARRIAGE AND RELATED VARIABLES
Nye, I. Washington State U Pullman, Washington
USDA Grant WNP-01745 $1,188; 02/63-01/70 $56,496

586 MODERN AND TRADITIONAL IRAN (evolution of family structure)
Paydarfar, Ali A. American Inst for Res Silver Spring, Md
NSF Grant GS-2937 $44,900; 03/70-03/71

587 DEFINITIONS AND PERCEPTIONS OF MALE-FEMALE ROLES
Scanzoni, John Indiana U Bloomington, Ind
DHEW Contract(NICHD) NIH 70-2192 $207,260; 06/70-06/71 $207,260

588 MARITAL DISRUPTION AND THE FERTILITY OF REMARRIAGE
Sweet, James A. Wisconsin, U of Madison, Wis
DHEW Contract(NICHD) NIH 70-2197 $34,773; 06/70-06/71 $34,773

589 STUDY OF FAMILY SIZE AND FAMILY GROWTH
Vekemans, Roger L.A. Ctr Population & Fam Studies Santiago, Chile
AID Grant 596-15-570-460 $350,000; /65- $1,340,0000

590 SURVEY OF RECENTLY MARRIED PERSONS IN NORTH CAROLINA
Wells, Bradley R. / Dicken, Bonnie G. RCHS Rockville, Md
DHEW Intramural/Contract(NCHS) $30,000; /67- /71 $75,000

591 FAMILY STRUCTURE AND POPULATION TRENDS IN TAIWAN
Wolf, Arthur P. Stanford U Stanford, Calif
NSF Grant GS-3041 $46,150(est); 07/70-07/72 $92,300

592 THE ROLE OF WOMEN IN SOCIETY
F Dept of Sociology, Catholic U Santiago, Chile

AID Other 513-11-580-236 ; 10/69-03/70 $7,300

POPULATION POLICY

593 SITUATION REPORTS ON POPULATION PROBLEMS POLICIES AND PROGRAM
Brown, Harrison California Inst of Technology Pasadena, Calif
AID Contract 931-11-570-858 ; 07/69-06/72

594 GOALS AND CONDITIONS OF POPULATION CONTROL
Davis, Kingsley California, U of Berkeley, Calif
DHEW Grant HD-4602 $73,896; 11/69-10/74 $317,294

595 POPULATION/ECONOMIC GROWTH ANALYSIS AND PRESENTATION (for political and economic policy makers in developing countries)
Enke, Stephen General Electric Co. - TEMPO Santa Barbara, Calif
AID Contract 931-11-570-016 ; 06/68-12/71

596 USIA AND POPULATION MATTERS ABROAD
Wechsler, Irving / Marcy, Mildred USIA Washington, D.C.
USIA Intramural

Research Revelant to the Delivery of Family Planning Services

597 THE ROLE OF THE FAMILY PHYSICIAN IN FAMILY PLANNING
Cartwright, Ann Inst of Community Studies London, England
DHEW Grant(RCH3A2) CB-00266 $840; 01/67-06/70 $98,417

598 NEED FOR SUBSIDIZED FAMILY PLANNING SERVICES: 1969
Orleans, Jay / Weinberg, David Plan Parenthood-World Pop
OEO Contract TA-3 $209,211; 06/70-06/71

599 IMPLEMENT OF POPULATION PROGRAM AND POLICY DESIGN
Freymann, Moye W. North Carolina, U of Chapel Hill, N.C.
AID Contract 931-11-570-858 ; 06/69-06/73

600 POPULATION ASSISTANCE DECISION MAKING SERVICE
Lindsay, Jennie Gen Triangle Inst Gen Triangle Park, N.C.
AID Contract 290-11-390-018 $277,000;

601 EVALUATION OF MOBILE TEAMS AND OTHER FAMILY PLANNING PROGRAMS
Bensinger, Thomas Government of Turkey Ankara, Turkey
AID Other 277-99-23-360-9813 ; 06/67-05/71

602 POPULATION DYNAMICS EDUCATION DESIGN CURRICULUM DEVELOPMENT
Cole, Dyan H. Cornell Univ Research Inst Ithaca, N.Y.
AID Other ; 06/70-07/71

603 FAMILY PLANNING PROGRAM IMPACT STUDY
Rowe, Gerald Gen Analytics Philly, Pa

OEO/DHEW Contract B00-5182 $637,081/$105,000; 06/70-06/72

604 COST-BENEFIT ANALYSIS OF PILOT FAMILY PLANNING PROGRAMS
Robinson, Warren C. Pennsylvania State U University Park, Pa
AID Contract 931-11-570-806 ; 03/68-06/71

605 DANFA RURAL HEALTH FAMILY PLANNING PROJECT
Sai, Fred T. Ghana, U of Ghana
AID Contract 641-11-580-055 $825,000; 03/70-07/76 $846,000

606 EVALUATION STUDIES OF INTERNATIONAL POST PARTUM FAMILY PLANNING PROGRAM
Schubeck, Frank Population Council New York, N.Y.
AID Contract 931-17-580-479 ; 01/67-12/70 $600,000

607 EVALUATION MATERNAL CHILD HEALTH PROGRAM
Stycos, Mayone Cornell U Ithaca, N.Y.
AID Contract 522-T-211 ; 08/70-11/70

608 ACCEPTANCE OF CONTRACEPTIVES DISTRIBUTED THROUGH COMMERCIAL CHANNELS
Suner, Erol Development Fdn of Turkey Ankara, Turkey
AID Other 277-15-990-000 $8,330; 06/69-10/70 $9,330

609 STUDY OF INTEGRATED FAMILY PLANNING AND RURAL HEALTH SERVICES
Taylor, Carl E. Johns Hopkins U Baltimore, Md
AID Contract 298-15-995-017 ; 06/69-06/74

610 UTILIZATION OF FAMILY PLANNING SERVICES
Vincent, Clark E. Bowman Gray Sch of Med Winston-Salem, N.C.
AID Contract 931-17-580-510 ; 06/69-06/71 $262,000

611 METHODOLOGY FOR EVALUATING FAMILY PLANNING PROGRAMS
Wishik, Samuel M. Columbia U New York, N.Y.
AID Contract 931-11-580-855 ; 06/70-06/72

612 FIELD STUDY OF POPULATION PRESSURES IN INDIA
Wyon, John B. Ctr for Population Studies Andhra Pradesh, India
DHEW PL-480(Fogarty) 01-051-1 ; $176,710

613 AN ANALYSIS OF WOMEN ACCEPTORS OF FAMILY PLANNING SERVICES
/ Population Ctr San Carlos, U of Guatemala
AID Other ; 01/70-06/70

614 DEMOGRAPHIC/EVALUATIVE STUDIES
/ Philippines, U of Population Inst & Chicago, U of
AID Other 492-220-3-00046 ; 01/70-01/72

615 EVALUATION OF FAMILY PLANNING CLINICS (DOMINICAN REPUBLIC)
/ Dominican Nat Population & Fam Council Dominican Republic
AID Other ; 01/70-06/70

616 FAMILY PLANNING SERVICES AND ABORTION PREVENTION (CHILE)
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile
AID Other 513-11-570-237 ; 10/69-03/71 $14,500

617 COMPREHENSIVE MATERNAL/CHILD HEALTH AND FAMILY PLANNING
/ Nat Hlth Serv & Med Sch of Catholic U Santiago, Chile
AID Other 513-11-580-243 ; 06/69-12/71 $71,000

618 RURAL HEALTH SERVICES AND ABORTION, MORTALITY AND FERTILITY
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile
AID Other 513-11-570-237 ; 12/68-12/71 $125,000

619 POSTPARTUM FOLLOWUP PROGRAM
/ Nat Fam Plan Board Jamaica
AID Other 532-11-580-030 ; 03/70-02/72 $32,500

620 TO RESEARCH, DEVELOP AND PREPARE THE CREATIVE INPUTS OF THE NIRODH (condom) PUBLICITY CAMPAIGN AND DEVELOP A MEDIA STRATEGY AND MARKETING PLAN
/ Clarion McCann Advertising Services Ltd. Calcutta, India
AID Contract 386-1506 ; 10/69-07/70 $757,000

621 CLINICAL RECORD CARD PROJECT (IUD)
/ Fam Plan Council Pakistan
AID Other ; /68-

622 FAMILY PLANNING - ORAL PILLS
/ Government of India, Dept of Fam Plan India
AID Other 386-51-580-332-3 ; /69- $200,000

623 THE ROLE OF THE MIDWIFE
/ Dept of Hlth Promotion, Nat Hlth Serv Chile
AID Other 513-11-570-239 ; 10/69-12/70 $1,500

624 NATIONAL IMPACT SURVEY
/ Fam Plan Council Pakistan
AID Other ; /68- /70 $209,000

625 COSTA RICAN DEMOGRAPHIC ASSOCIATION RESEARCH PROJECTS
/ Costa Rican Demographic Association Costa Rica
AID CR-144&CR-155 ; 05/68- $9,800

626 STUDY OF ENTITIES ENGAGED IN FAMILY PLANNING ACTIVITIES IN TONDO
/ Inst of Philippine Cult, Ateneo de Manila U Manila, Philippines
AID Other ; 10/69-04/70

DATA GENERATION AND COMPILATION ACTIVITIES

627 DEMOGRAPHIC SERVICES - INTERNATIONAL DEMOGRAPHIC STATISTICS CENTER
Baum, Samuel U.S. Bureau of the Census Suitland, Md
AID PASA 931-11-570-810 ; 03/68- $967,000

628 CENSUS AND HOUSEHOLD SURVEY
Diaz de Bedoya, Jose Ministry of Finance Asuncion, Paraguay
AID Grant 526-11-580-085 ; 06/70-12/74

629 MARRIAGE REGISTRATION AREA ESTIMATES
Grymes, Robert U.S. Bureau of the Census Suitland, Md
DHEW R Agremt(NCHS) 34-7281 $2,700; 10/69-02/70 $7,000

630 COLLECTION AND ANALYSIS OF NATIONAL MARRIAGE AND DIVORCE STATISTICS
Hetzel, Alice Nat Ctr for Hlth Statistics Rockville, Md

DHEW Intramural $240,000

631 COLLECTION AND ANALYSIS OF NATIONAL MORTALITY STATISTICS
Israel, Robert A. Nat Ctr for Hlth Statistics Rockville, Md
DHEW Intramural $760,000

632 LIBERIAN POPULATION GROWTH SURVEY (demographic household survey)
Massalee, Abel Dept of Planning & Econ Affairs Monrovia, Liberia
AID Grant 669-11-570-109 $207,000; 02/69-02/74 $405,000

633 FOREIGN DEMOGRAPHIC ANALYSIS
Myers, Paul F. U.S. Bureau of the Census Suitland, Md
Various Govt Agencies R. Agrents $946,000

634 COLLECTION AND ANALYSIS OF NATIONAL NATALITY STATISTICS
Patterson, John Nat Ctr for Hlth Statistics Rockville, Md
DHEW Intramural $390,000

635 DEMOGRAPHIC STUDY OF PARAGUAY
Silvero, Arnaldo Tech Secretariat for Planning Asuncion, Paraguay
AID Grant 526-11-580-085 $36,000; 06/70-06/72

636 NATIONAL DEMOGRAPHIC RESEARCH IN TUNISIA
Tarifa, Chadli Dept of Demographic Statistics Tunis, Tunisia
DHEW PL-480(NCHS) 07-651-2 $63,482; 02/68-02/71 $157,291

637 NATIONAL DEMOGRAPHIC RESEARCH
/ Nat Ctr for Hlth Statistics, Dept Hlth, Educ & Welfare Tunisia
AID Other 07-651-2 $63,482; 02/68-02/71 $157,291

638 IMPROVEMENT OF DEMOGRAPHIC STATISTICS
/ Population Census Organization Pakistan
AID Other ; /70- /73

639 VITAL REGISTRATION PROJECT
/ Fam Plan Council Pakistan
AID Other ; /69- $111,300

640 DEMOGRAPHIC SAMPLE SURVEY (GHANA)
/ Sociology Department, Ghana, U of Ghana
AID Grant 641-15-570-051 ; 07/68-12/70 $163,000

641 CURRENT POPULATION SURVEY , INCLUDING POPULATION TRENDS AND SPECIAL REPORTS
/ U.S. Bureau of the Census Suitland, Md
Labor/Commerce R. Agrent/Intramural $2,700,000/$2,079,000; 07/69-06/70

642 ASSISTANCE FOR ROCAP AND IMPROVED STATISTICS AND CENSUS
/ Regional Organization for Central America - ROCAP
AID Grant 596-15-570-023 ; /67-

643 THE 19TH DECENNIAL CENSUS OF POPULATION & HOUSING
/ U.S. Bureau of the Census Suitland, Md
Commerce Intramural $121,438,000; 12/63-12/72 $216,220,000 (Congressional Approp)

INSTITUTIONAL PROGRAMS

644 DEVELOPMENT CENTRE POPULATION PROJECT
Coleman, George Jr OECD Paris, France
AID Grant 931-11-570-827 ; /68- /72

645 INSTITUTIONAL GRANT TO UNIVERSITY OF MICHIGAN
Corsa, Leslie Sch of Public Hlth, Michigan, U of Ann Arbor, Mich
AID Grant 931-11-570-110 ; 06/68-06/73

646 ASIAN POPULATION DYNAMICS STUDY (institutional support)
Demeny, Paul East-West Center, Hawaii, U of Honolulu, Hawaii
AID Contract 498-11-570-200 ; 06/68-06/72

647 INSTITUITIONAL GRANT TO THE UNIVERSITY OF NORTH CAROLINA - (Development of Multidisciplinary Program Family Planning and Population)
Freymann, Moye W. North Carolina, U of Chapel Hill, N.C.
AID Grant 931-11-570-102 ; 05/68-05/73

648 A POPULATION RESEARCH LABORATORY AT BROWN UNIVERSITY (Population Studies and Training Center)
Goldstein, Sidney Brown U Providence, R.I.
DHEW Grant(NCHSRD) HS-00246 $154,414; 07/66-06/73 $855,827

649 RESEARCH CENTER FOR STATISTICAL METHODS IN DEMOGRAPHY (CIMED) OF THE NATIONAL STATISTICAL DEPARTMENT (DANE) Bogota, Columbia
Linder, Forrest E. / Losee, Gray North Carolina, U of Chapel Hill, N.C.
AID Grant $236,400; 07/70-09/71 $236,400

650 LABORATORIES FOR POPULATION STUDIES(network established in collaboration with less-developed countries)
Linder, Forrest E. North Carolina, U of Chapel Hill, N.C.
AID Contract 931-11-570-861 ; 06/69-06/72 $761,000

651 RESEARCH AND ANALYSIS OF POPULATION GROWTH IN LATIN AMERICA
Livinger, Charles Population Council New York, N.Y.
AID Grant 598-15-570-456 $1,115,000; /65- $2,800,000

652 LATIN AMERICA DEMOGRAPHIC CENTER
Miro, Carman Demographic Ctr Santiago, Chile
AID Grant 598-15-570-459 ; /66-

653 INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION
Morales, Julio Manuel Nat U of Asuncion Asuncion, Paraguay
AID Grant 526-11-580-085 $6,500; 06/69- /73 $121,500

654 INSTITUTIONAL GRANT TO JOHNS HOPKINS UNIVERSITY
Taylor, Carl E. Johns Hopkins U Baltimore, Md
AID Grant 931-11-570-101 ; 06/68-01/73

655 POPULATION DYNAMICS UNIT (to develop manpower and to carry out population research in selected overseas areas)
Taylor, Carl E. Johns Hopkins U Baltimore, Md

AID Grant 931-11-570-813 ; 07/65-06/70

656 A STUDY OF HEALTH SERVICES RESEARCH AND TRAINING
Vukmanovic, Cedomir Fed Inst Public Hlth Belgrade, Yugosl
DHEW PL-480 (NCHSRD) 02-705-2 ; 07/69-06/73 $718,417

657 INSTITUTIONAL SUPPORT TO POPULATION AND SOCIAL RESEARCH CENTER,
Yamarat, Charas Population & Social Res Ctr, Mahidol U Thailand
AID Other 493-11-580-209 $2,000; /69- /74 $26,000

658 DEMOGRAPHIC RESEARCH CENTER (Population Laboratory)
/ Statistical Division-Secretariat for Planning Rabat, Morocco
AID Grant 608-11-570-109 $200,000; 06/70-06/75

659 INSTITUTIONAL SUPPORT TO DEMOGRAPHIC TRAINING AND RESEARCH CENTER
/ Demographic Training Ctr Chembur, Bombay, India
Aid Other ; $156,000

660 FAMILY PLANNING - BIOMEDICAL RESEARCH (India)
/ Various Centers India
AID Other 386-51-580-332-11

661 INSTITUTIONAL SUPPORT TO FAMILY PLANNING COUNCIL FOR USE IN MEDICAL COLLEGES
/ Fam Plan Council Pakistan
AID Other ; /69-

662 POPULATION AND DEMOGRAPHY PROGRAM
/ Venezuelan Ctr for Population & Family Venezuela
AID Other 529-15-580-034 ; 01/67-03/70 $88,000

663 DEMOGRAPHIC STUDIES
/ Ministry of Hlth, Population Office Costa Rica
AID Other CR-102 ; 10/66- $18,800

664 HEALTH EDUCATION-POPULATION
/ Population Study Ctr Ecuador
AID Other 518-15-570-094 ; 08/68-08/69 $13,000

53/54

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APPENDIX-A

CLASSIFICATION

FOR

FEDERAL INVENTORY OF POPULATION RESEARCH: FY 1970

I. BIOLOGICAL SCIENCES

A. Reproductive Processes and Contraceptive Development

0. Multiple or unspecified

1. Embryonic development of the reproductive system

2. Development and function of the reproductive system from birth through puberty

3. Female fertility; estrous and menstrual cycles

(including oogenesis, ovulation, ovum transport, corpus luteum function, cyclical changes in structure and function of ovary, oviduct, uterus and vagina; endocrine and neuroendocrine aspects of these processes; related pathological conditions and infertility)

a. Multiple or unspecified

b. Ovarian factors, including oogenesis, ovulation, corpus luteum; cyclic changes in structure and function of ovary

c. Oviductal, uterine and vaginal factors

4. Male fertility

(including spermatogenesis, sperm morphology and function, structure and function of the organs of the male reproductive tract; endocrine and neuroendocrine aspects of male reproductive function; related pathological conditions and infertility)

5. Fertilization, including immediate prefertilization processes

(including transport of the unfertilized ovum, sperm transport in the female reproductive tract, sperm capacitation, sperm penetration of the ovum; the role of secretions, immunologic phenomena, and hormones in these processes)

6. Zygote transport, preimplantation development and implantation

(including transport of the fertilized ovum, early cleavage, blastocyst development, endometrial changes in implantation, endometrial-trophoblast interaction)

7. Reproductive endocrinology

(including general studies of the biochemistry and mode of action of pituitary and placental gonadotrophins, hypothalamic releasing and inhibiting factors for gonadotrophins, and sex steroids in male and female) (not including studies concerned with the endocrine control of specific functions in Items 1 through 6)

a. Multiple or unspecified

b. Neuroendocrinology

(including hypothalamic releasing and inhibiting factors for gonadotrophins, the function of the pineal in reproduction, and the role of pheromones)

c. Pituitary and placental hormones (gonadotrophins, prolactin, oxytocin)

d. Steroid hormones (androgens, estrogens, progesterone)

8. Pharmacological studies of natural or synthetic agents (other than presently used contraceptives) affecting reproduction and fertility

B. Fertility Regulation Techniques Presently In Use

(including mechanism of action, effects of dosage or design, efficacy, adverse effects)

0. Multiple or unspecified fertility regulation techniques

1. Contraceptives in use

a. Multiple or unspecified

b. Steroid contraceptives

c. Intrauterine devices

d. Other

(including rhythm, diaphragm, condom, etc.)

2. Sterilization

(including vasetomy, tubal ligation)

3. Induced abortion

(including surgical techniques, abortifacients)

II. ANIMAL BEHAVIOR AND ECOLOGY

A. Animal Reproductive Behavior

B. Animal Population Ecology; Effects of Population Density

III. SOCIAL SCIENCES

A. Demography and Sociology

0. Multiple or unspecified

1. Population growth or change

(including changes in population size and the basis of their estimation; trends and projections including methodology)

2. Population characteristics and distribution

(including age, sex, place of birth, residence, literacy or educational attainment, religious affiliation, social status or condition, race or ethnic origin, color, language, employment status, occupation and industry, income and wealth; regional and spatial distribution, political and geographical subdivisions, urban-rural pattern, density, ecology)

3. Fertility

a. Multiple or unspecified

(including fecundity and sterility, natural increase, differentials and determinants and sex education)

b. KAP studies and contraceptive practices

c. Out-of-wedlock births

d. Induced abortion

e. Sterilization

4. Mortality

5. Migration

6. Marriage, divorce and the family

   (including family composition and size, status of women)

7. Population policy

   (including religious, ethical and moral issues involved in population planning)

B. Research Relevant to the Delivery of Family Planning Services

C. Data Generation and Compilation Activities

   (primarily Bureau of the Census and Bureau of Labor Statistics activities)

IV. INSTITUTIONAL PROGRAMS

APPENDIX-B

Table 1. Population Research Projects Supported by Federal Agencies, During FY '70, by Source of Funds

(Thousands of dollars)

Source of funds[a]	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
GRAND TOTAL.	667[b]	543[b]	$163,334
Agriculture, Department of	28	24	489
Atomic Energy Commission	3	3	75
Commerce, Department of	5	5	123,544
Health, Education and Welfare, Department of	475	456	23,038
Housing and Urban Development, Department of	1	1	195
Labor, Department of	1	1	2,700
National Science Foundation	21	21	491
Office of Economic Opportunity	2	2	846
State, Department of - Agency for International Development	108	29	11,010[c]
U. S. Information Agency	3	-	-
Veterans Administration	19	-	-
Other[d]	1	1	946

a/ All the projects submitted by the Department of the Interior and the National Aeronautics and Space Administration were excluded from the inventory because they were not relevant to population research as defined in this report.

b/ The number of projects, and the number of projects reporting funds, differ from the totals shown in Table 2 by three and two respectively. These differences arise from the multiple support of individual projects.

c/ This amount includes only funds which have been obligated during FY '70. No funds are shown for awards in which the project has only a partial research component.

d/ A project conducted by the Bureau of the Census, Department of Commerce which was jointly supported by several agencies.

APPENDIX-C

Table 2. Population Research Projects Supported by Federal Agencies, During FY '70, by Subject Area

(Thousands of dollars)

Subject area	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
GRAND TOTAL.	664	541	$163,334
BIOLOGICAL SCIENCES, TOTAL	442	405	$ 25,910
Reproductive Processes and Contraceptive Development, Total	382	359	21,849
Multiple or unspecified	24	22	2,312
Embryonic development of the reproductive system	6	6	165
Development and function of the reproductive system from birth through puberty	3	3	62
Female fertility; estrous and menstrual cycles, total	72	65	2,290
Multiple or unspecified	9	7	243
Ovarian factors	27	24	797
Oviductal, uterine and vaginal factors	36	34	1,250
Male fertility	52	47	1,722
Fertilization	34	34	1,262
Zygote transport, preimplantation development and implantation	38	37	1,057
Reproductive endocrinology, total	140	135	6,954
Multiple or unspecified	32	30	2,405
Neuroendocrinology	34	32	1,164
Pituitary and placental hormones	27	27	1,252
Steroid hormones	47	46	2,133
Pharmacological studies (other than presently used contraceptives) affecting reproduction and fertility	13	10	6,025

A P P E N D I X - C

Table 2. Population Research Projects Supported by Federal Agencies, During FY '70, by Subject Area
(Continued)

(Thousands of dollars)

Subject area	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
BIOLOGICAL SCIENCES, (CONT'D.)			
Fertility Regulation Techniques Presently in Use, Total	60	46	$ 4,061
Contraceptives, total	59	46	4,061
Multiple or unspecified	3	2	21
Steroid contraceptives	49	39	3,586
Intrauterine devices	6	5	454
Other	1	-	-
Sterilization	1	-	-
ANIMAL BEHAVIOR AND ECOLOGY, TOTAL	26	23	726
Animal Reproductive Behavior	19	17	571
Animal Population Ecology; Effects of Population Density	7	6	155
SOCIAL SCIENCES, TOTAL	175	107	134,984
Demography and Sociology, Total	128	90	3,996
Multiple or unspecified	3	3	33
Population growth or change	20	17	570
Population characteristics and distribution	9	7	344
Fertility, total	53	32	1,860
Multiple or unspecified	28	20	1,244
KAP studies and contraceptive practices	13	3	281
Out-of-wedlock births	4	3	156
Induced abortion	7	6	179
Sterilization	1	-	-
Mortality	4	3	44
Migration	14	12	211

Table 2. Population Research Projects Supported by Federal Agencies, During FY '70, by Subject Area
(Continued)

(Thousands of dollars)

Subject area	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
SOCIAL SCIENCES, (CONT'D.)			
Demography and Sociology, (Cont'd.)			
Marriage, divorce and the family	21	15	$ 860
Population policy	4	1	74
Research Relevant to the Delivery of Family Planning Services	30	6	2,062
Data Generation and Compilation Activities	17	11	128,926
INSTITUTIONAL PROGRAMS	21	6	1,714
GRAND TOTAL.	664	541	$163,334